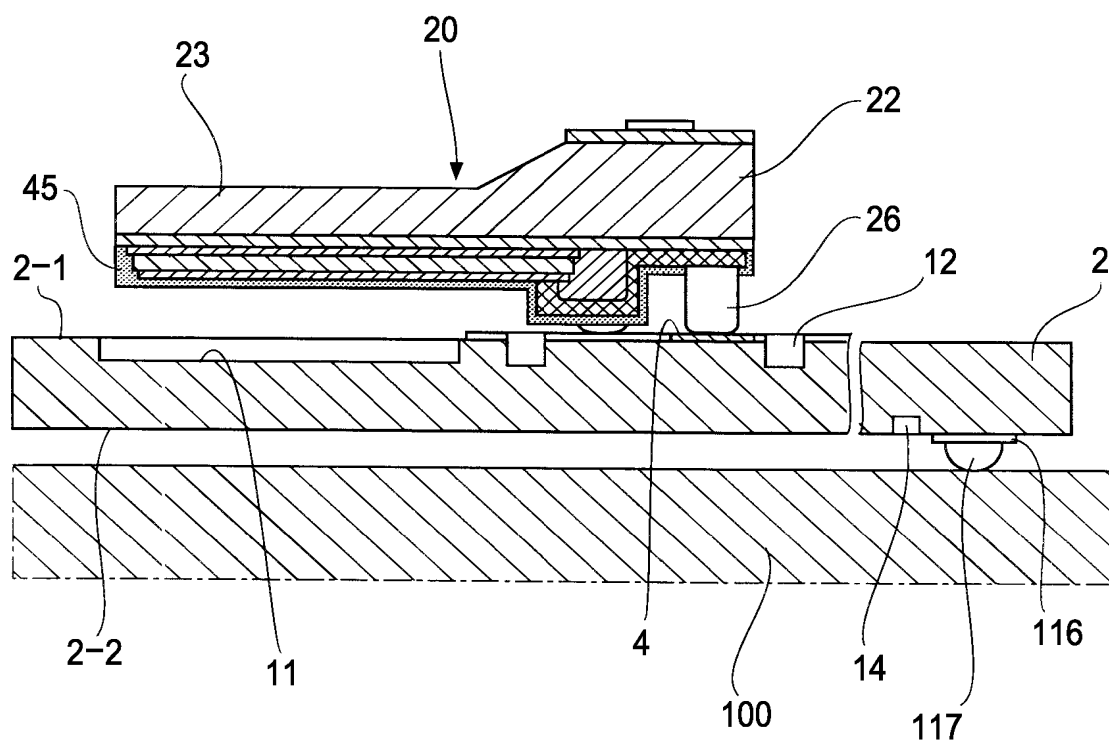






FIG. 3



[illegible]

FIG. 5

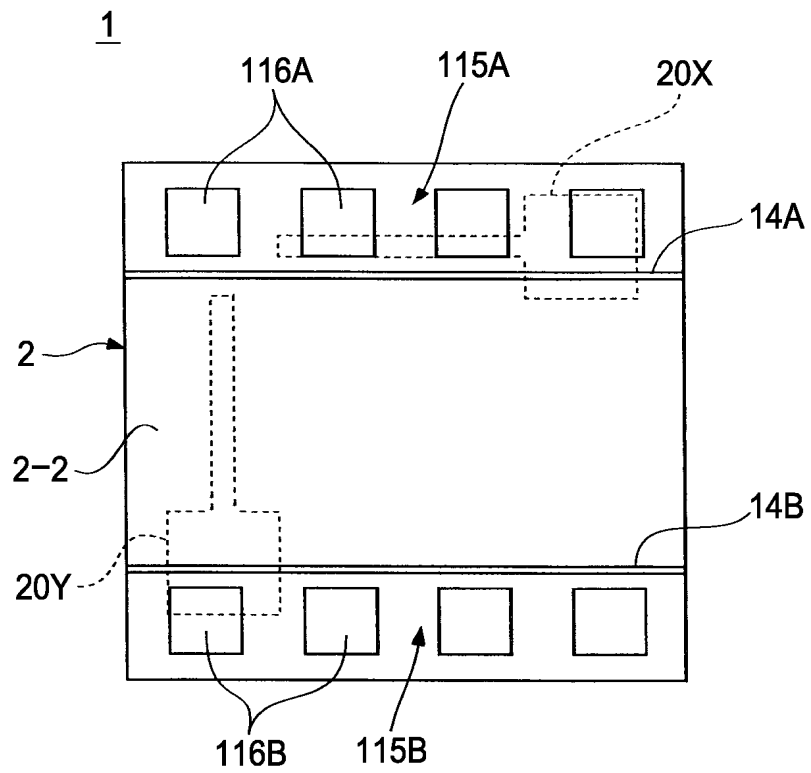


FIG. 6

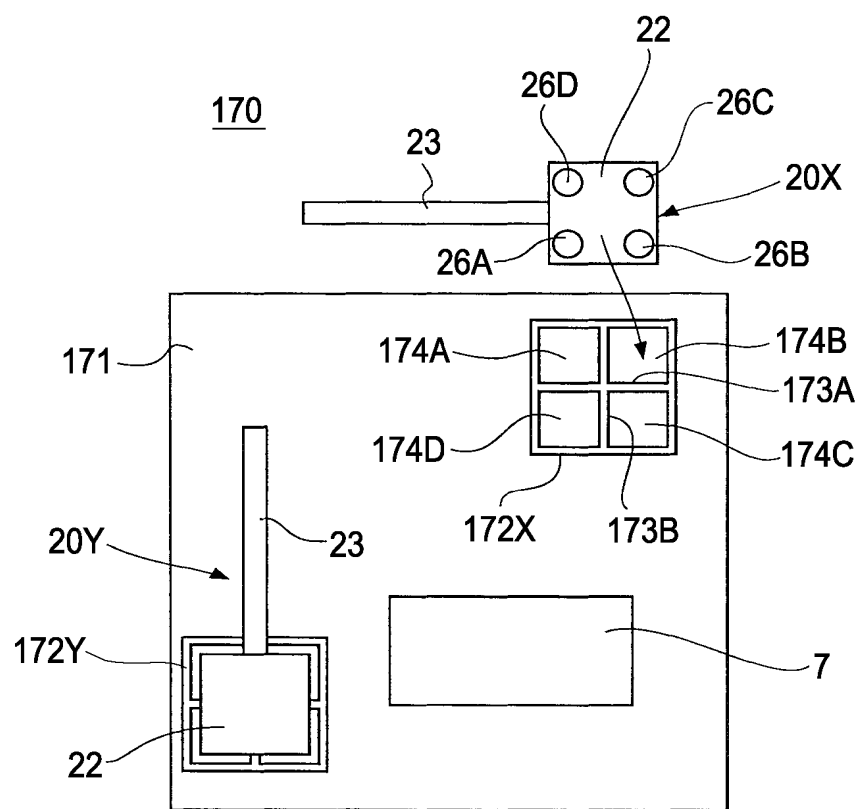


FIG. 7

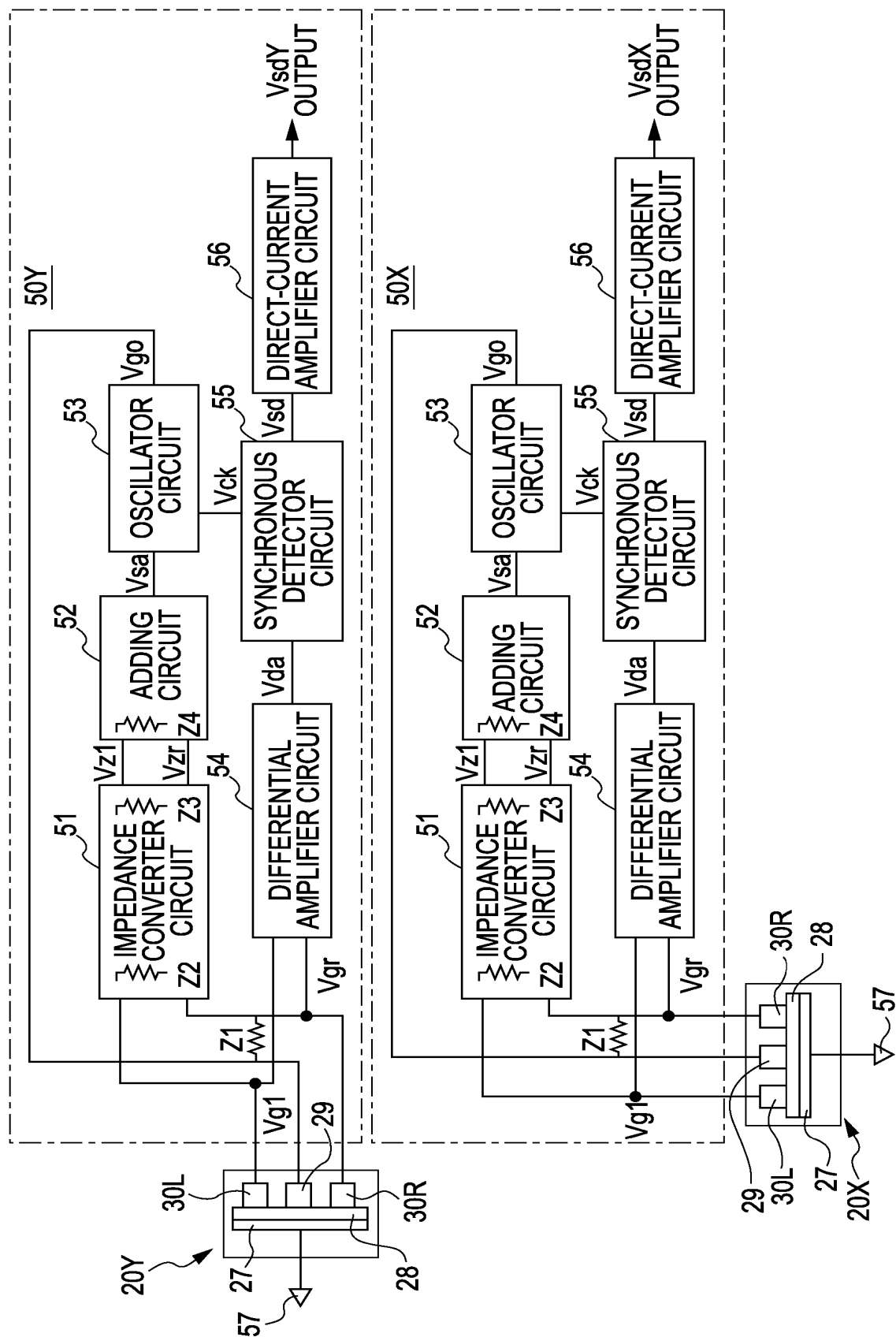


FIG. 8

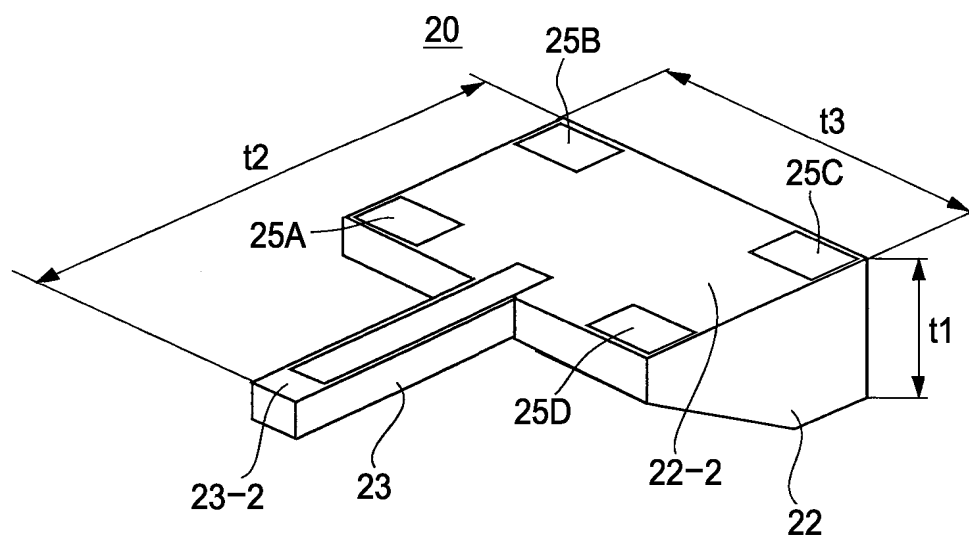
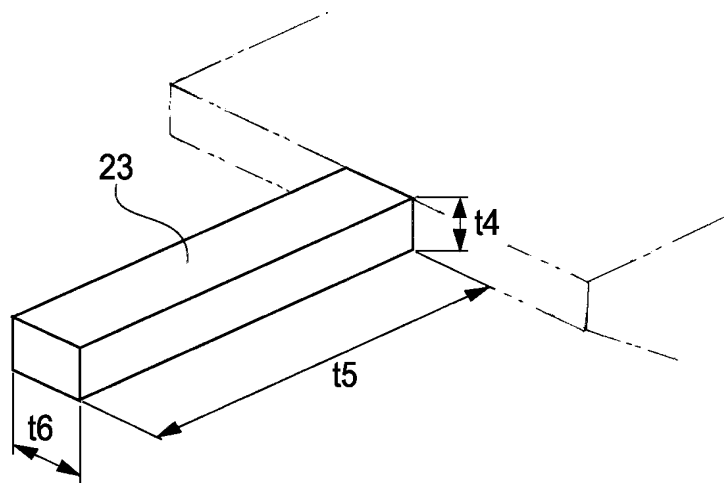


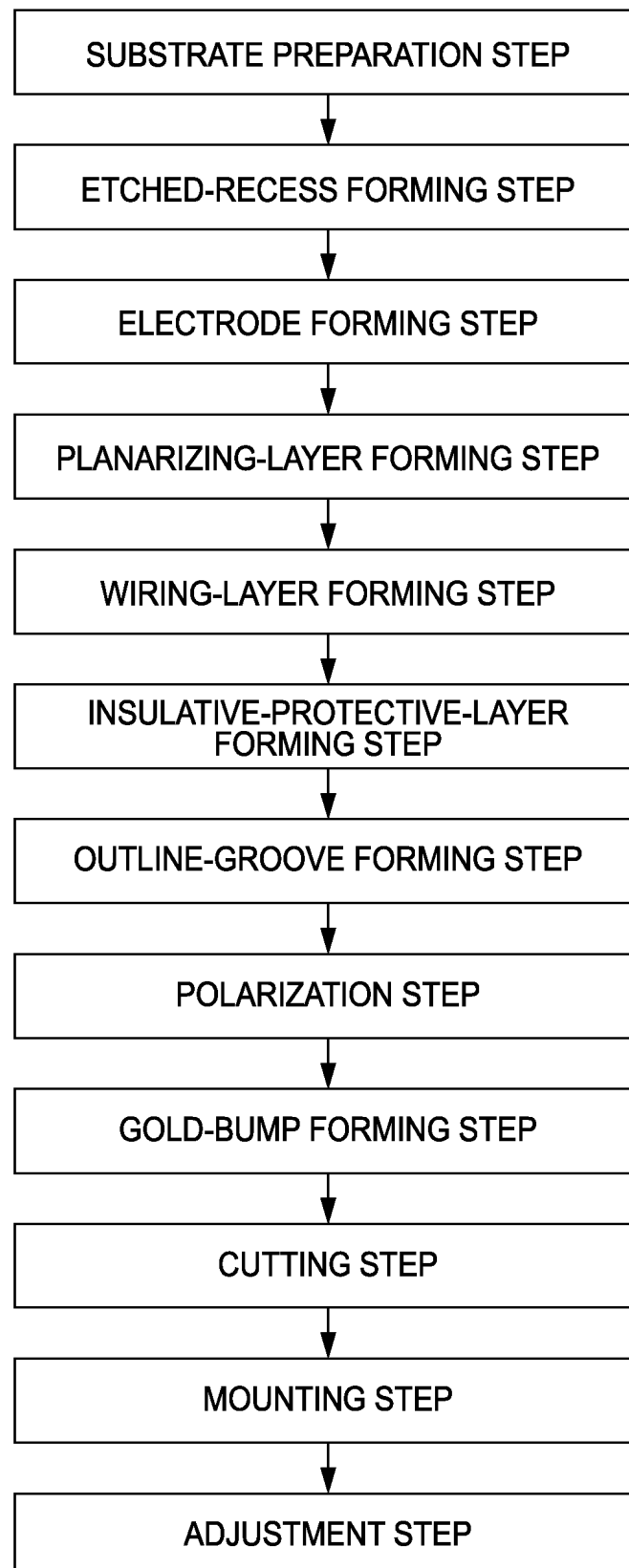


FIG. 9



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FIG. 10

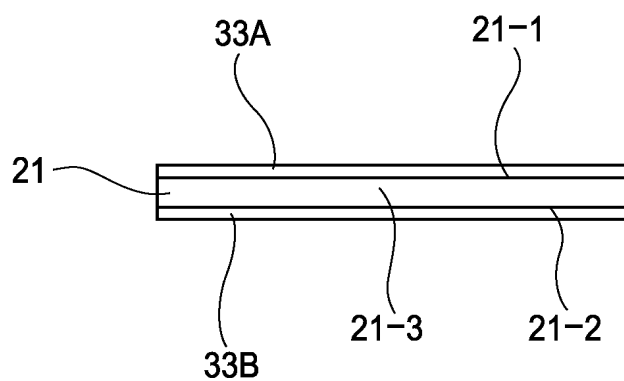


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FIG. 11



FIG. 12



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FIG. 13

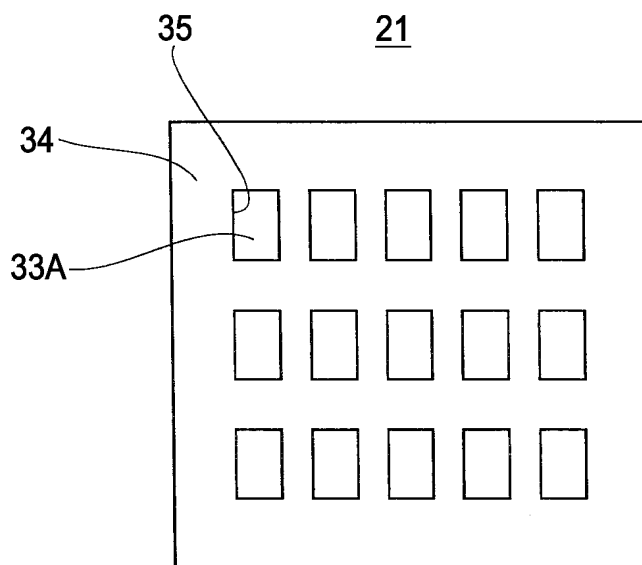


FIG. 14

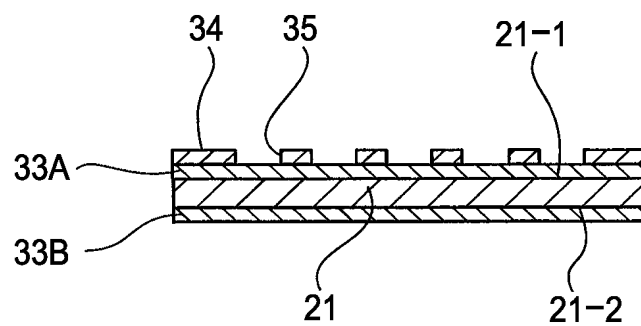


FIG. 15

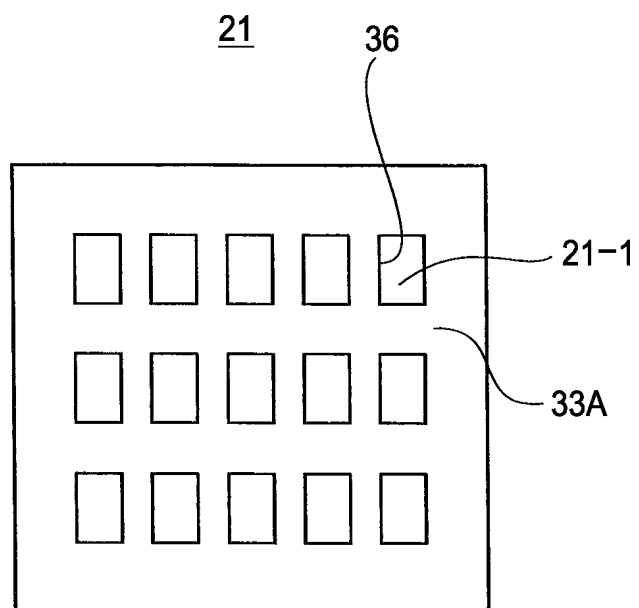
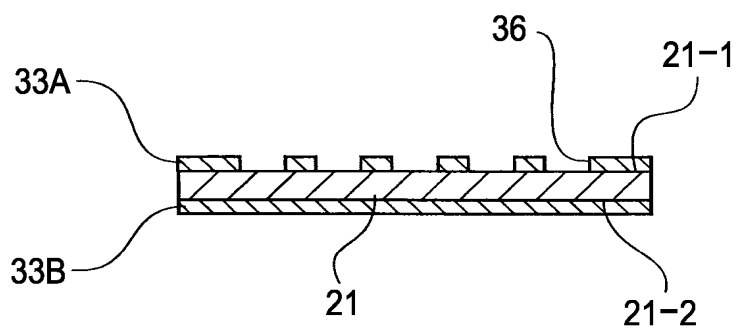


FIG. 16



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FIG. 17

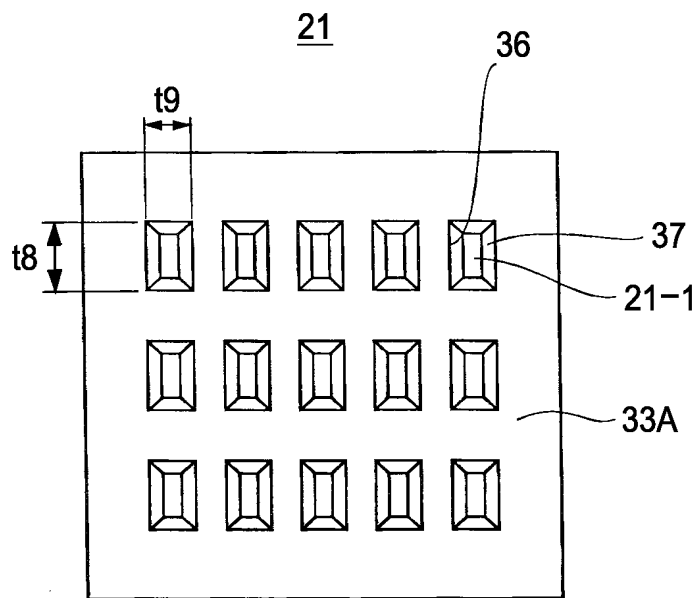


FIG. 18

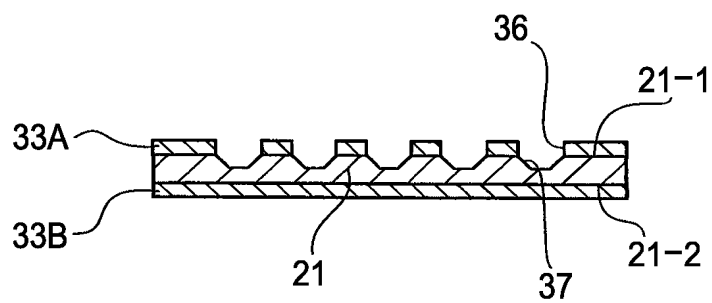


FIG. 19

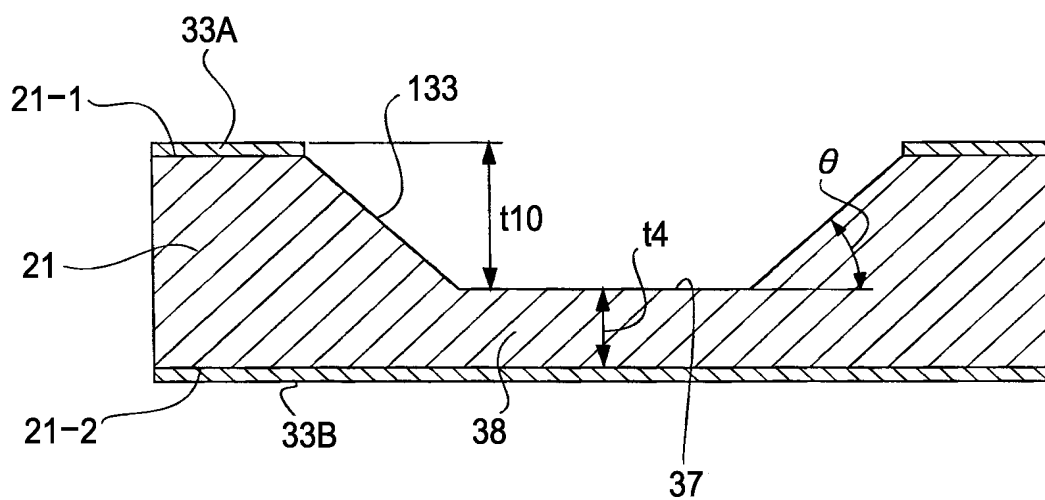


FIG. 20

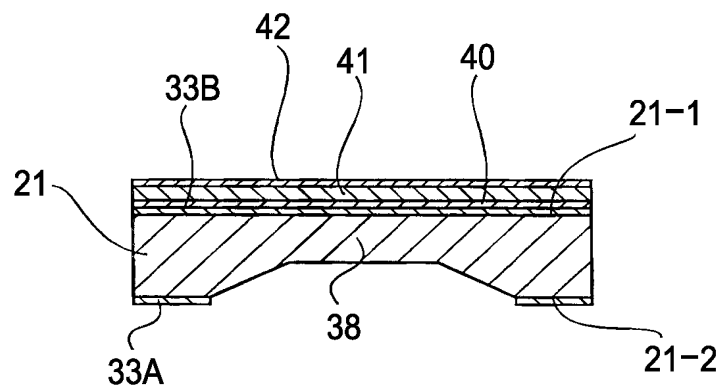




FIG. 21

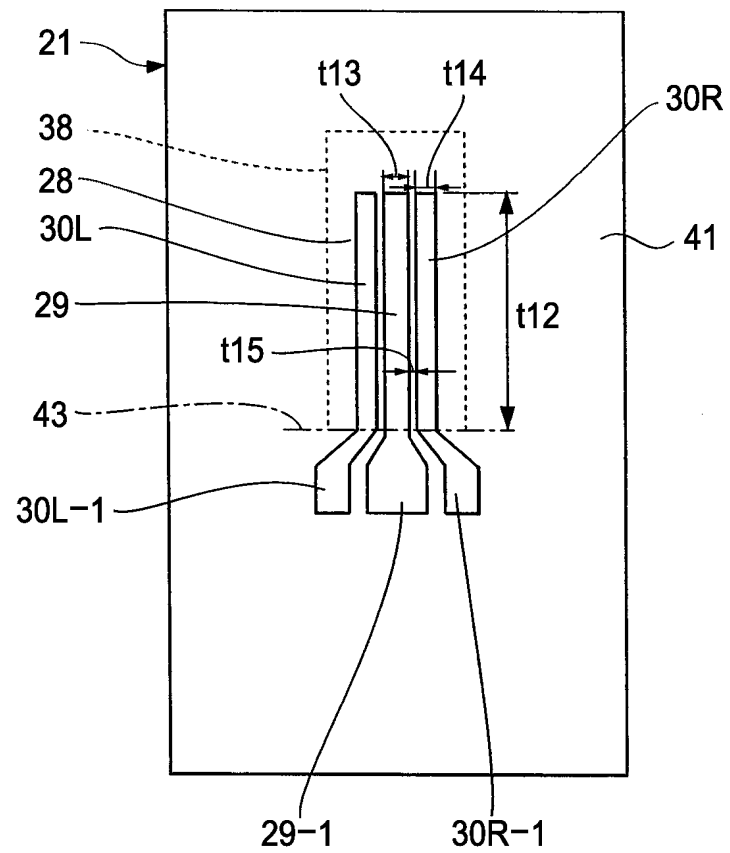
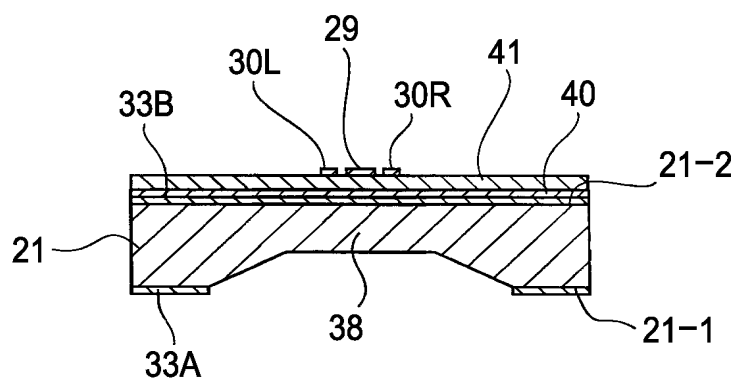


FIG. 22



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FIG. 23

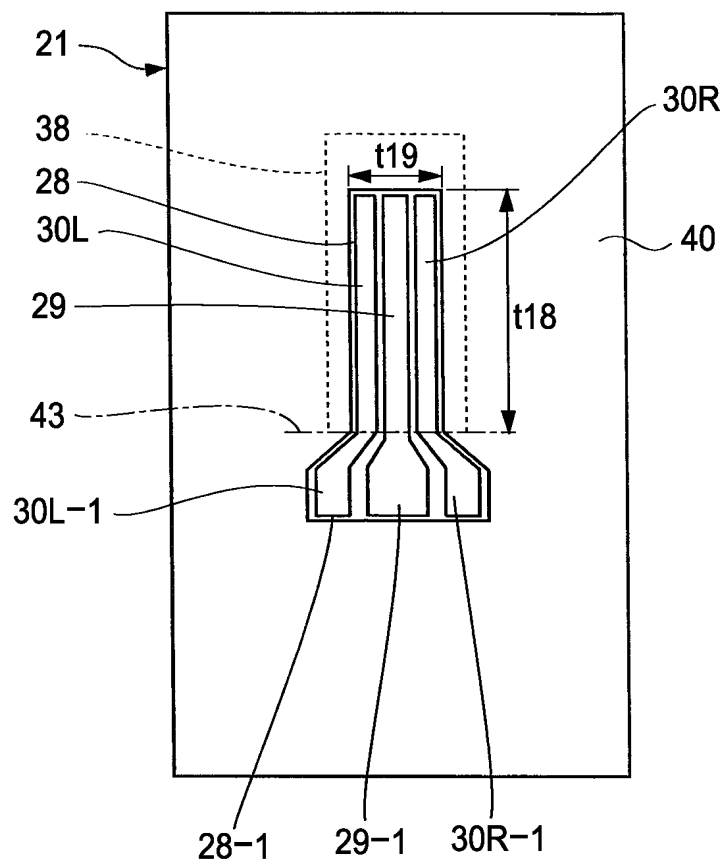
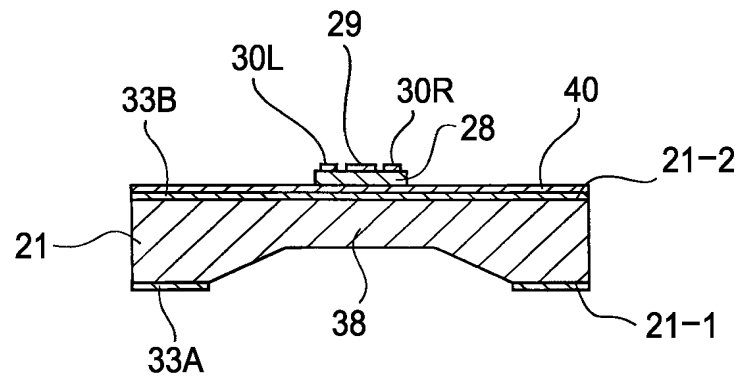


FIG. 24



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FIG. 25

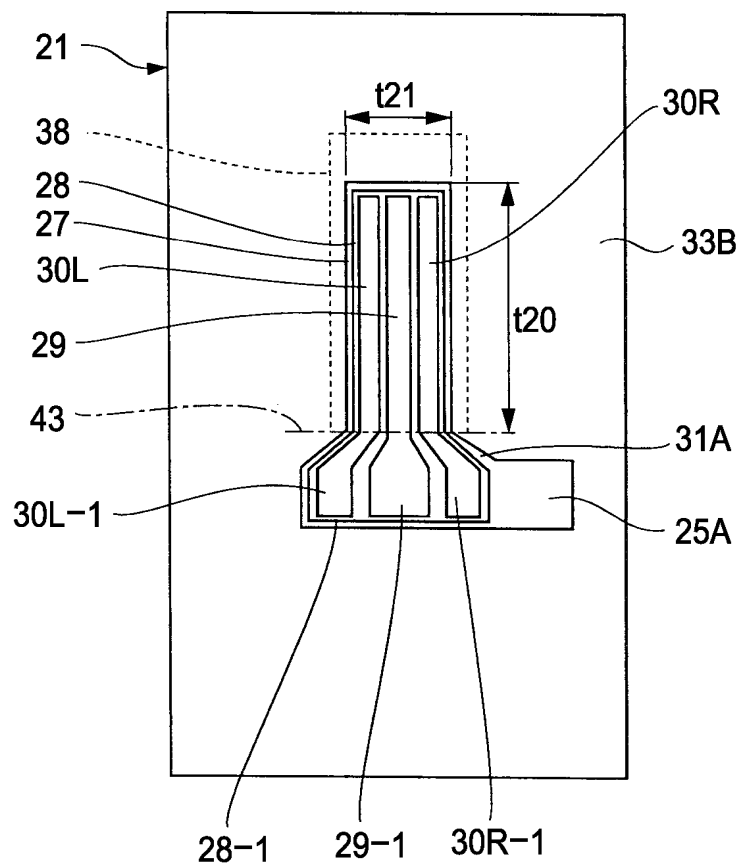


FIG. 26

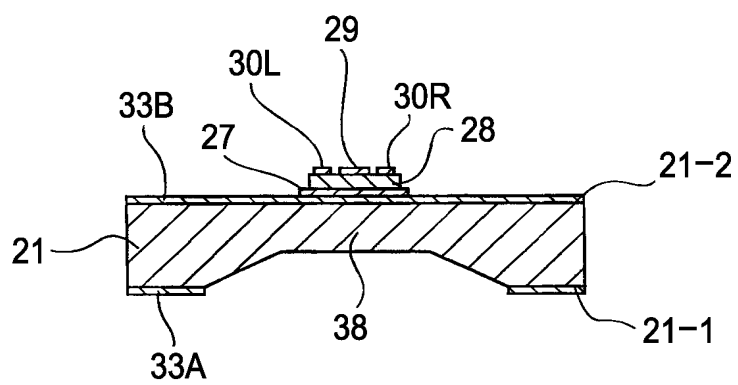


FIG. 27

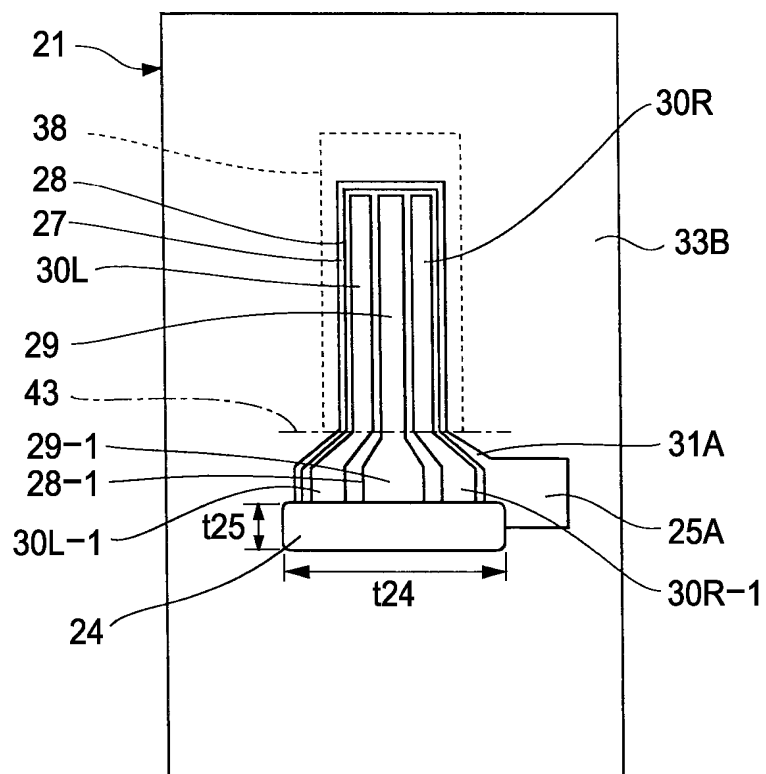


FIG. 28

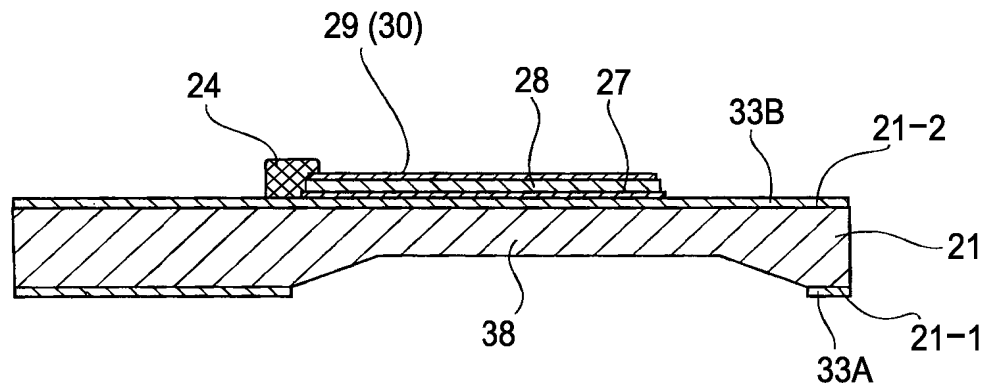




FIG. 29

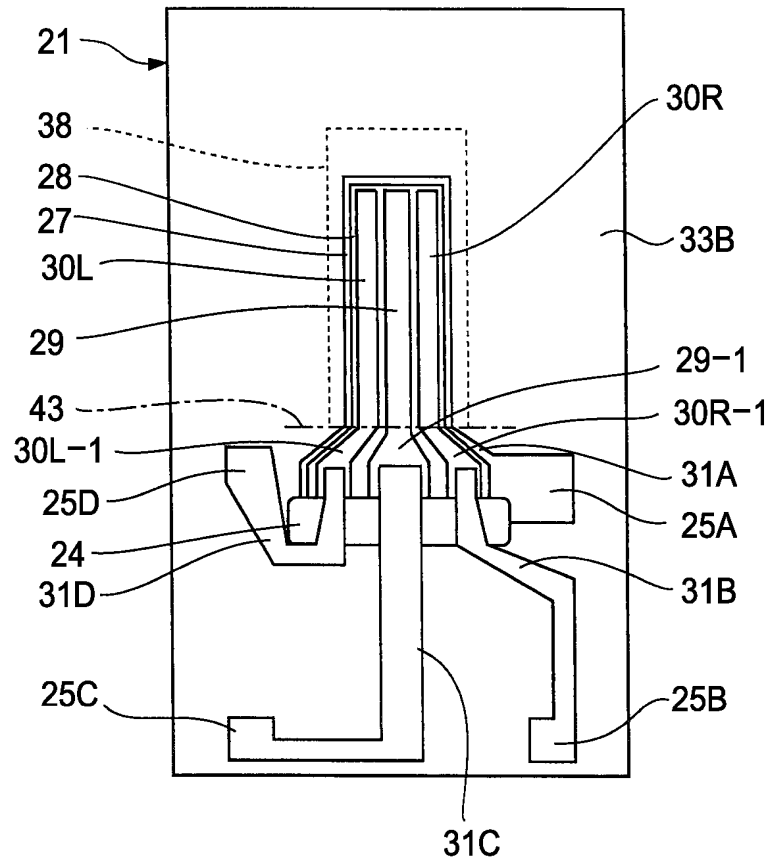


FIG. 30

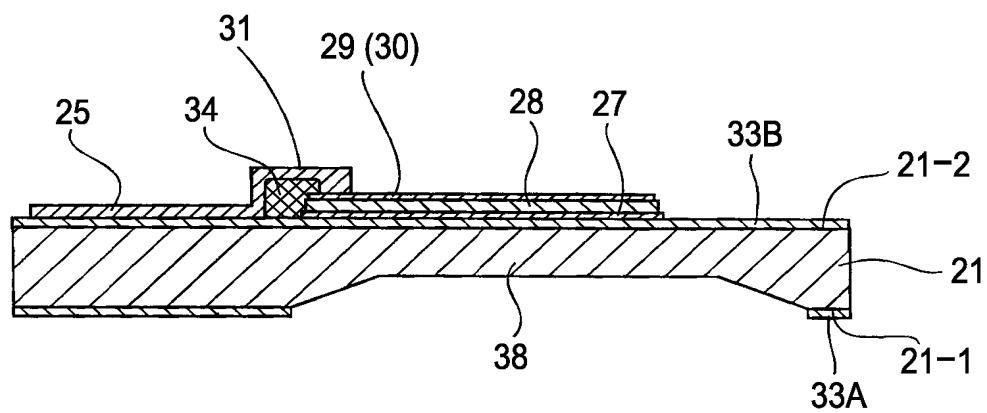


FIG. 31

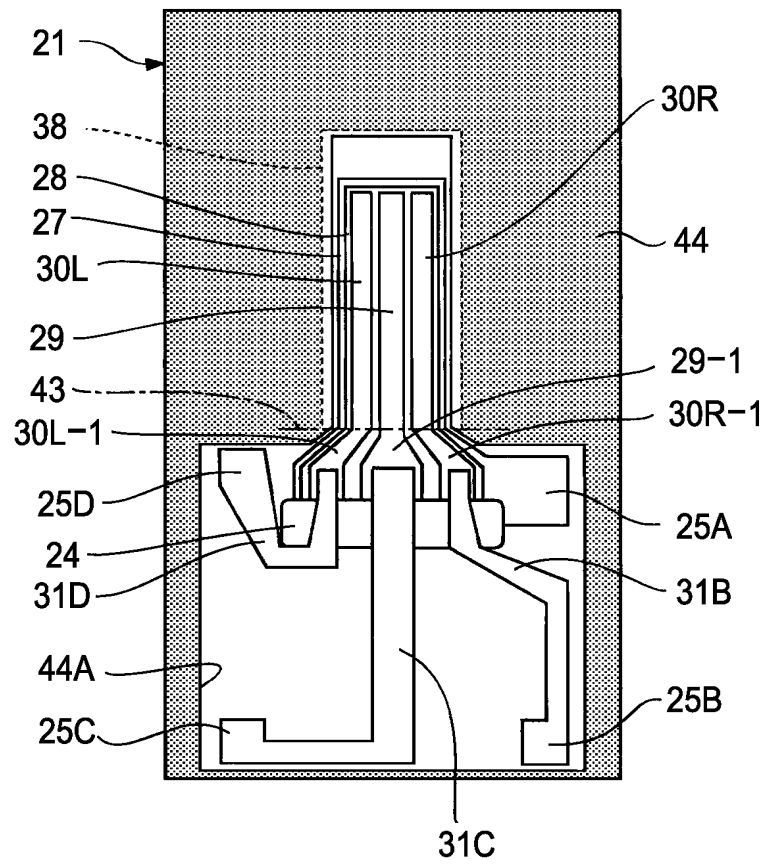


FIG. 32

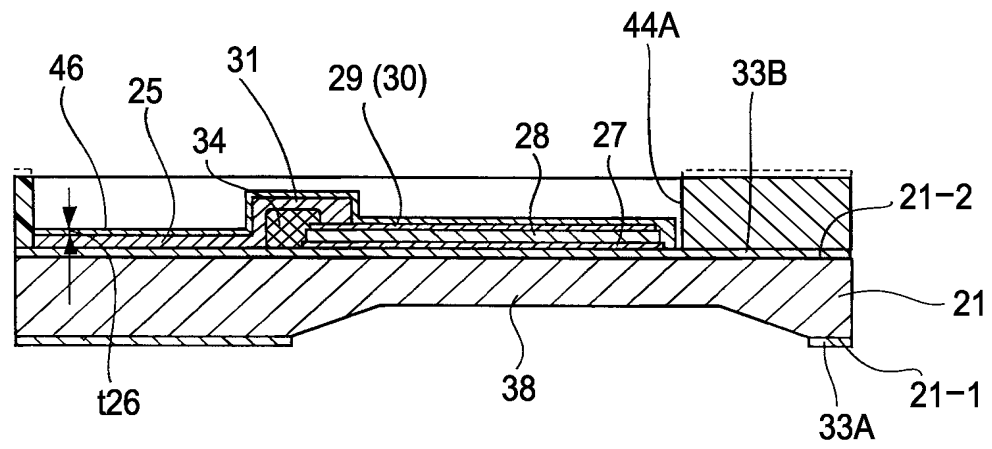




FIG. 34

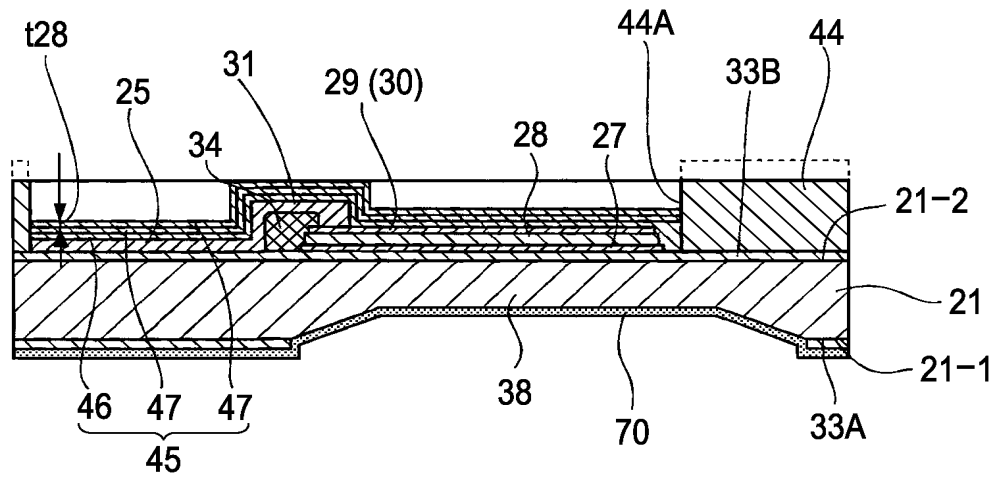


FIG. 35

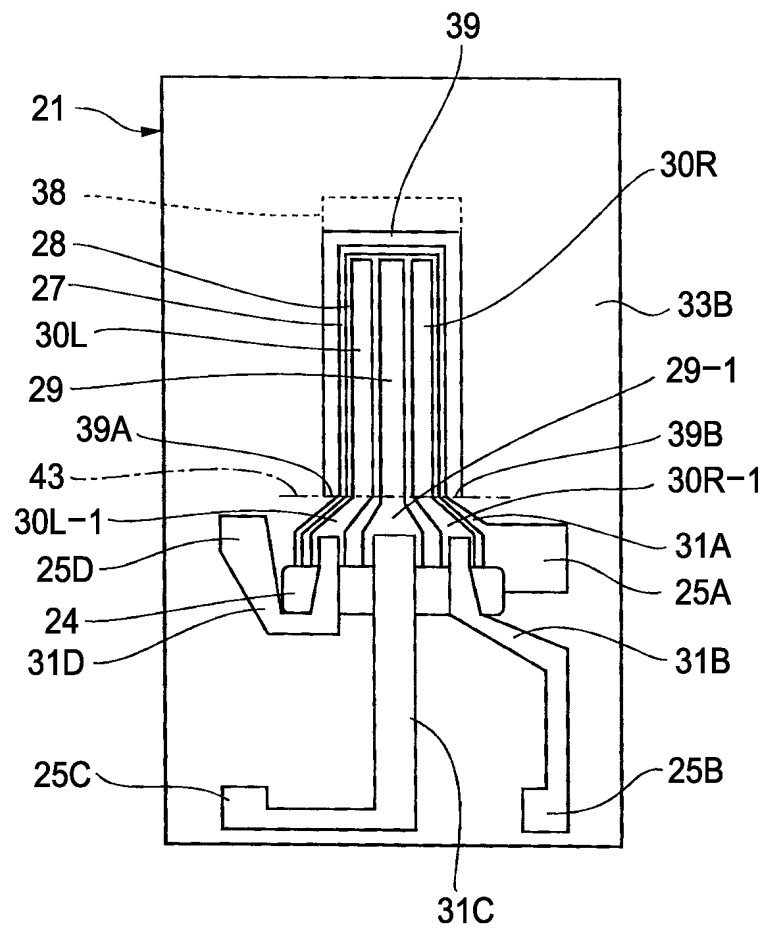
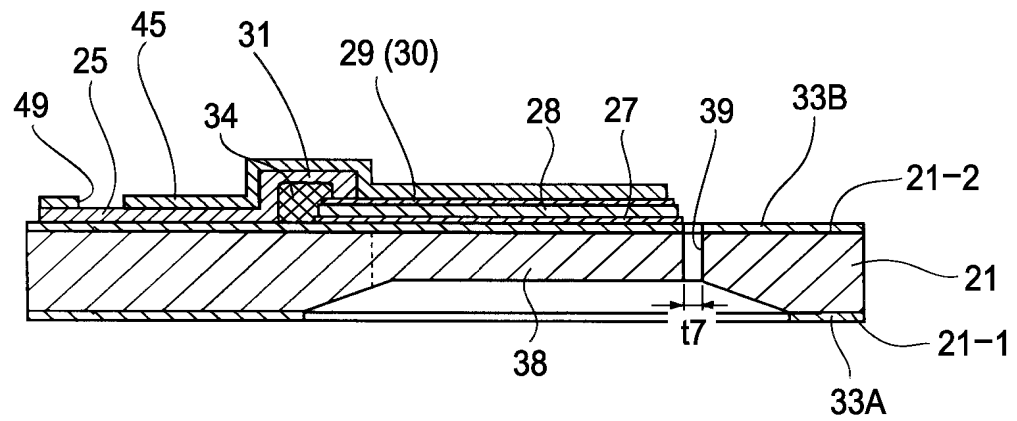


FIG. 36





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FIG. 37

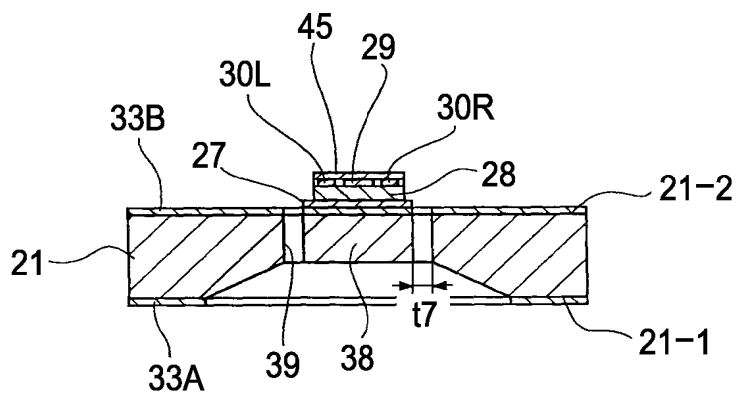
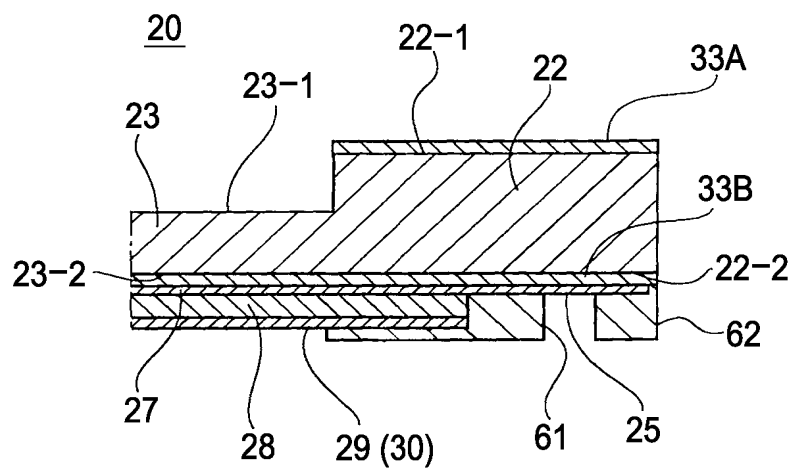


FIG. 38A



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FIG. 38B

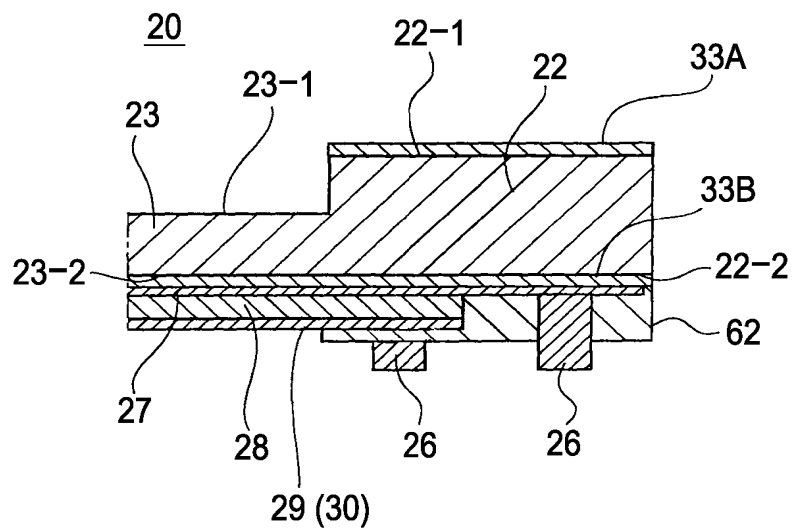
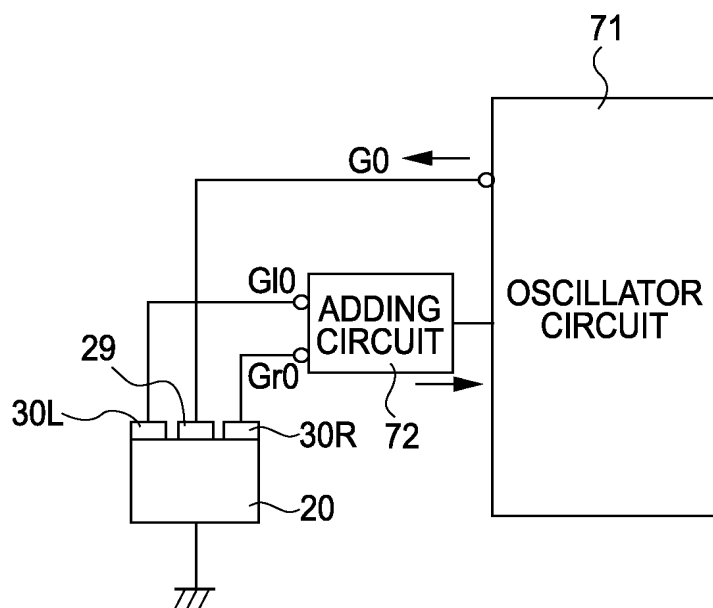


FIG. 39A



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FIG. 39B

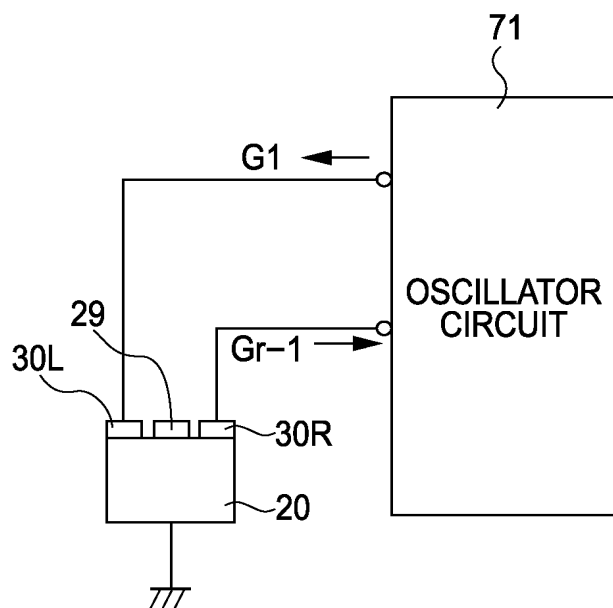


FIG. 39C

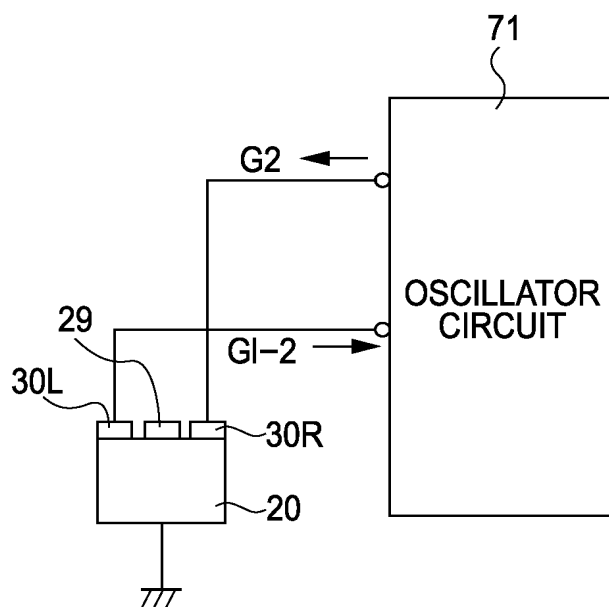


FIG. 40

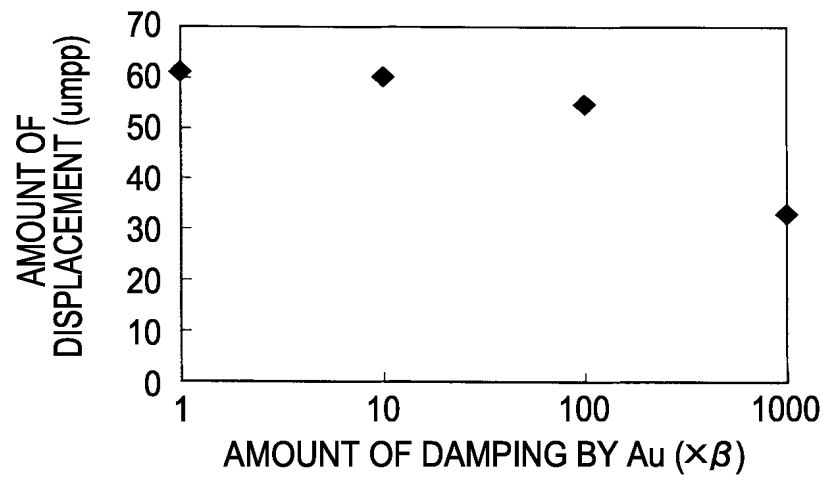


FIG. 41A

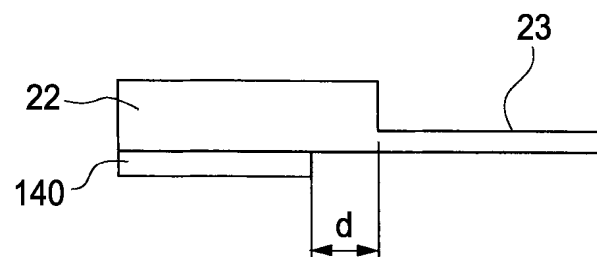


FIG. 41B

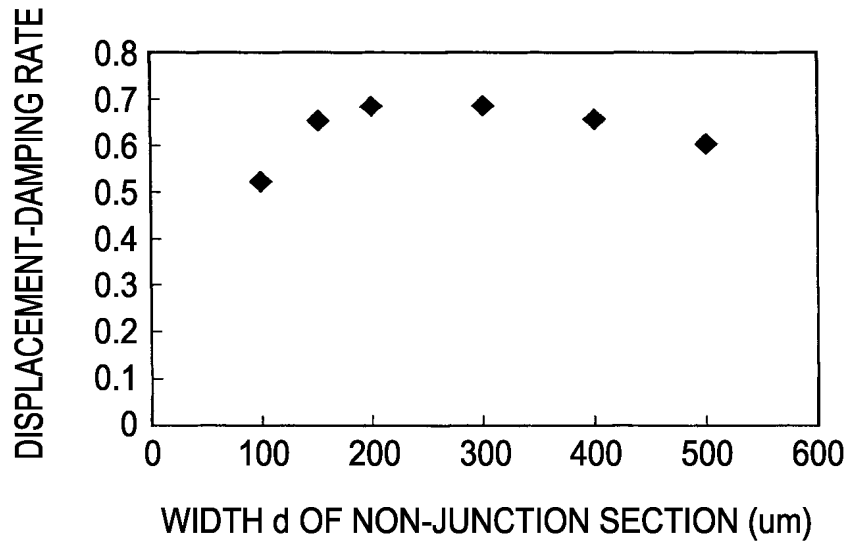


FIG. 42A

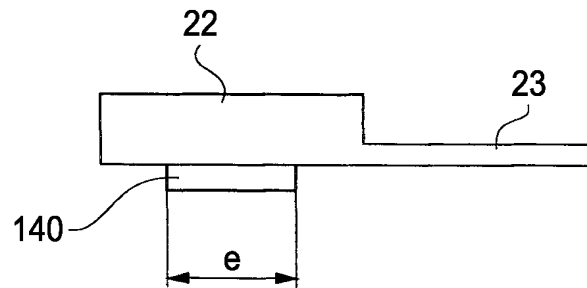


FIG. 42B

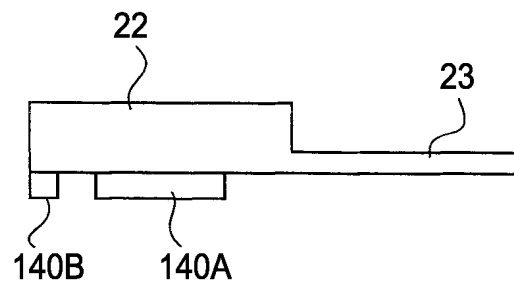


FIG. 42C

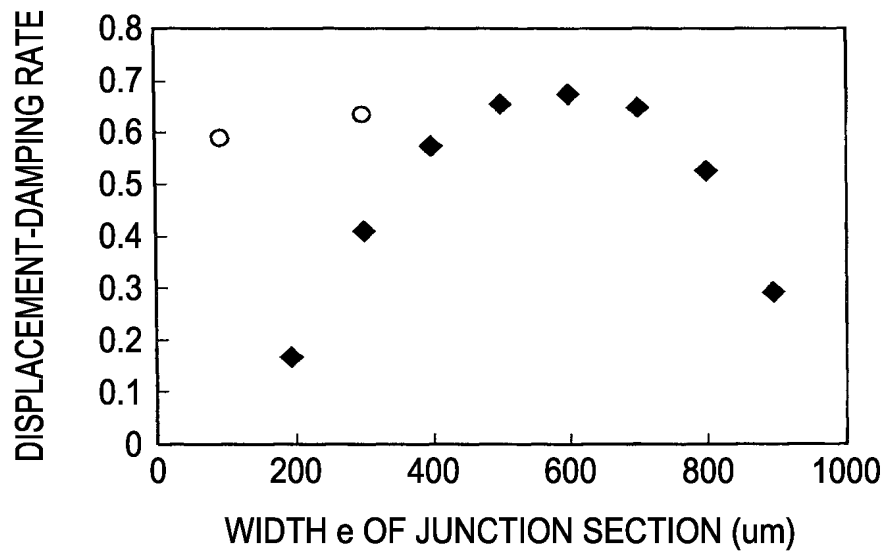


FIG. 43A

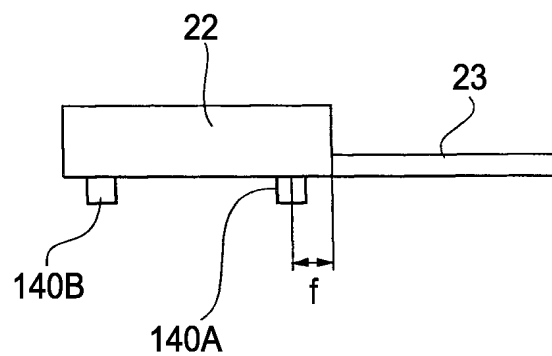


FIG. 43B

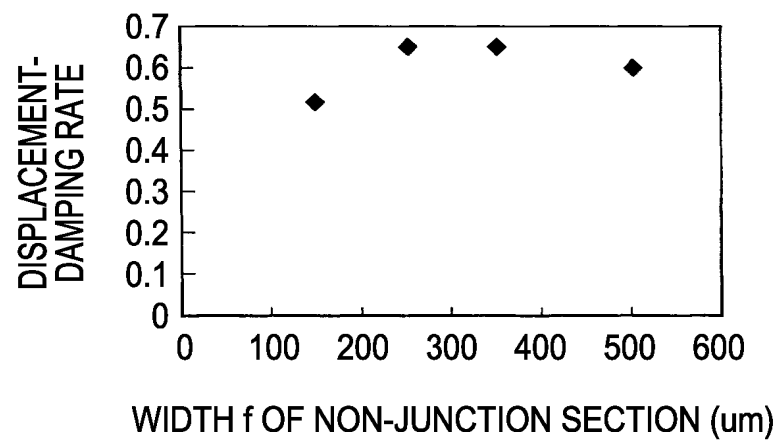


FIG. 44A

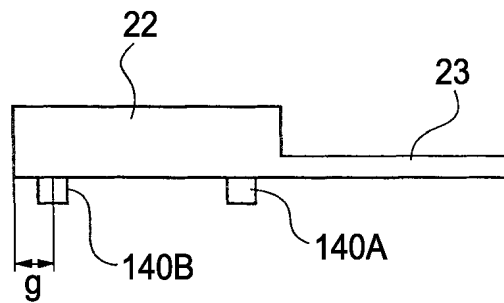


FIG. 44B

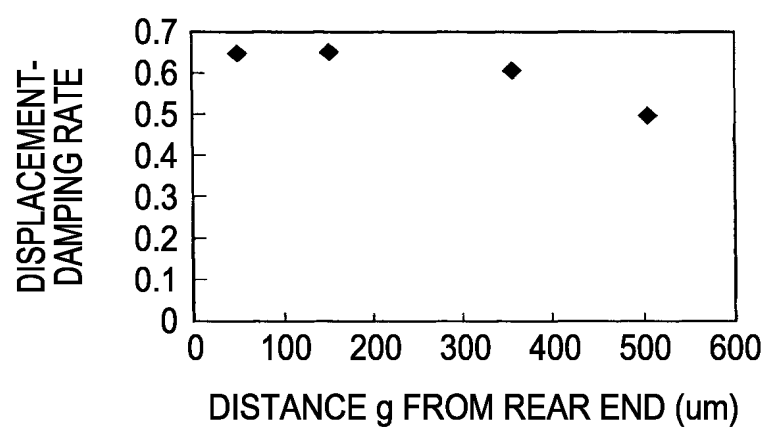
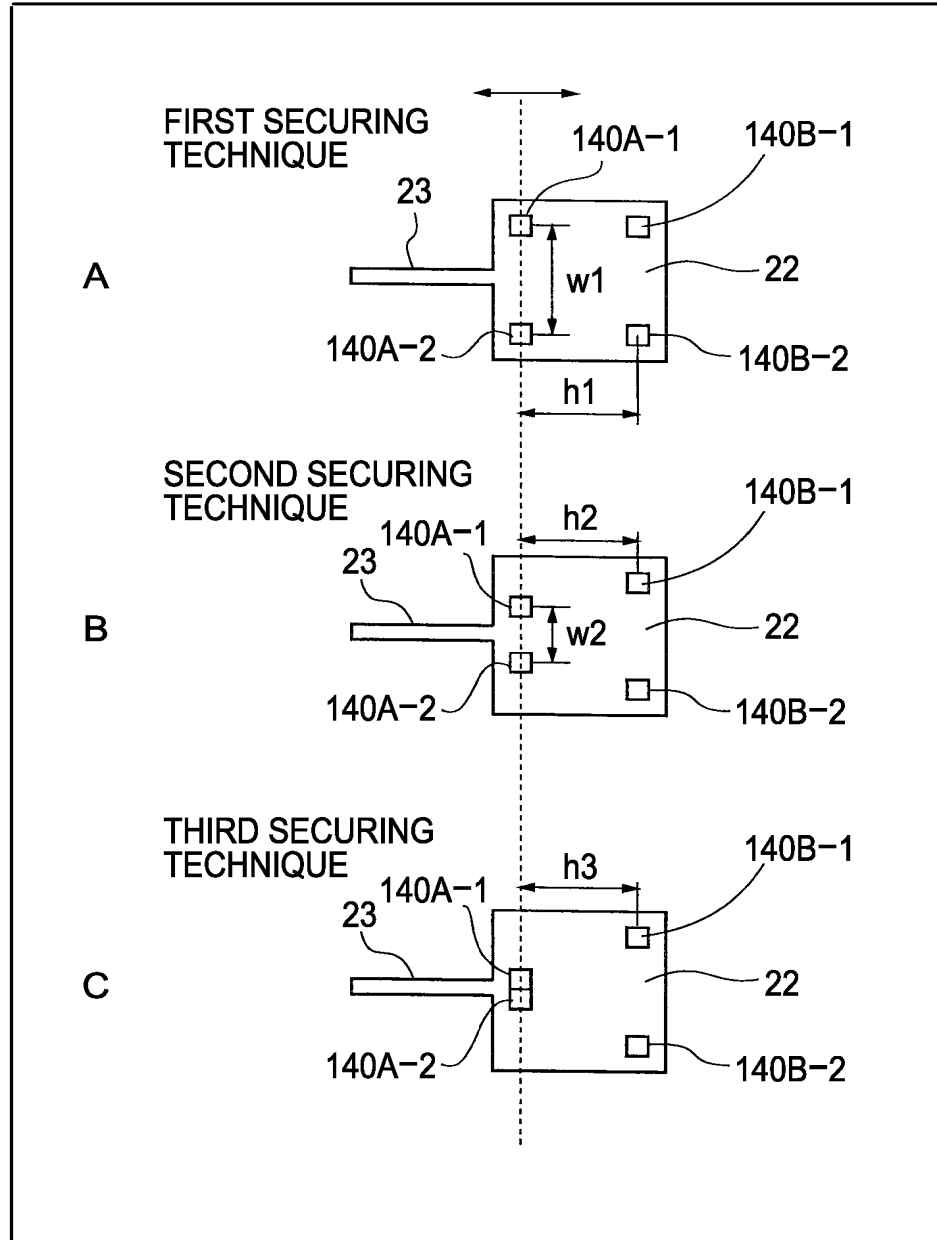




FIG. 45



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FIG. 46

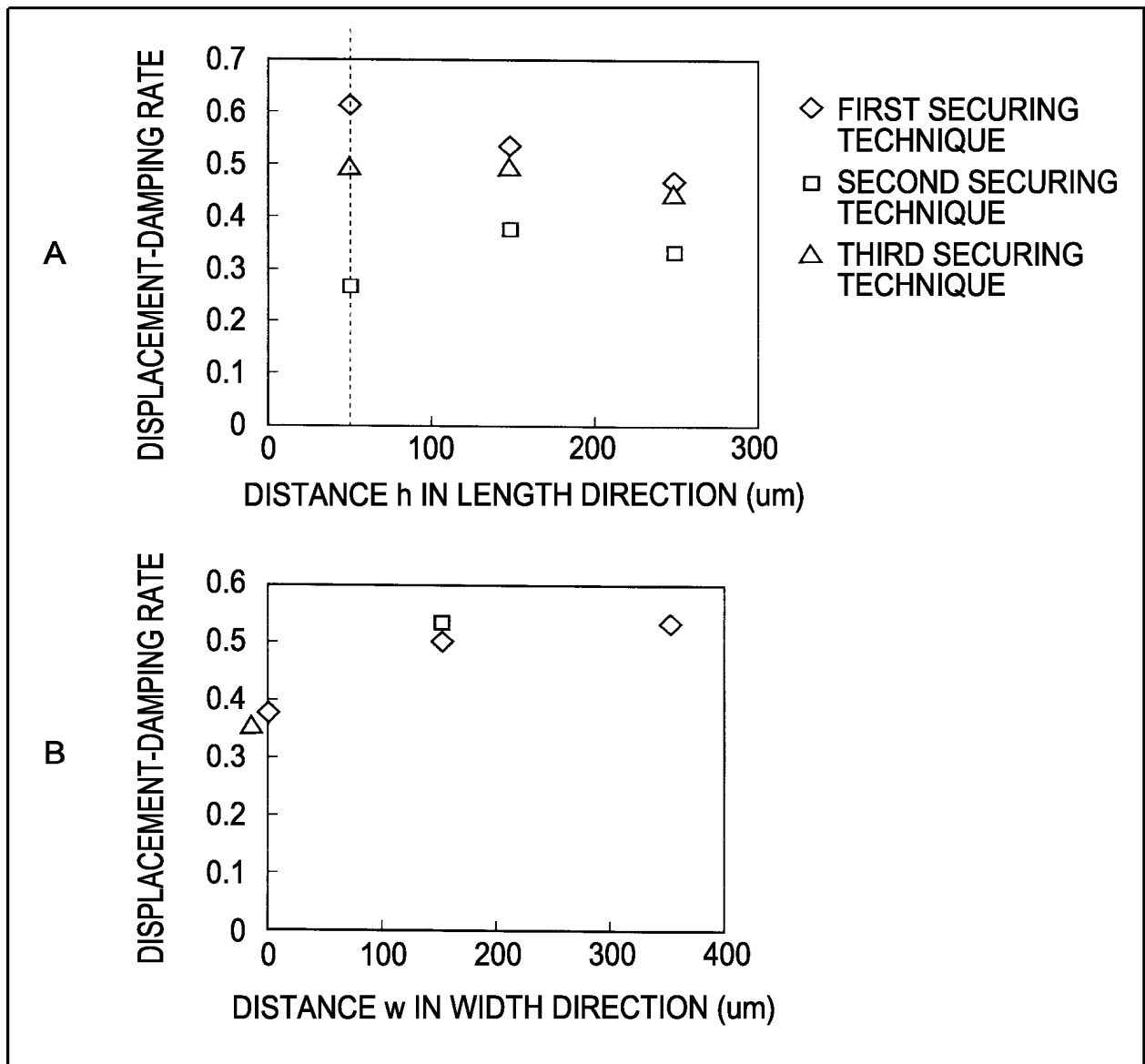


FIG. 47A

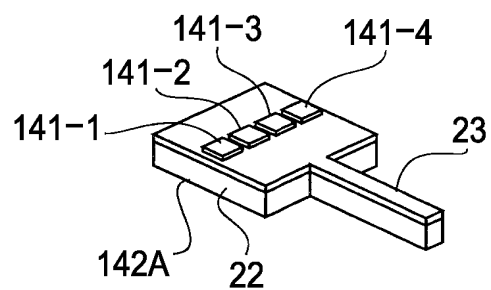


FIG. 47B

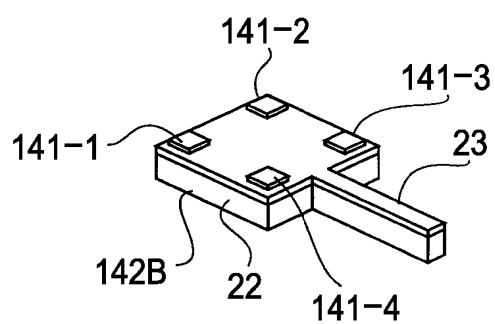
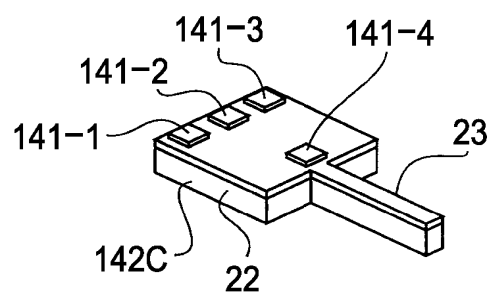
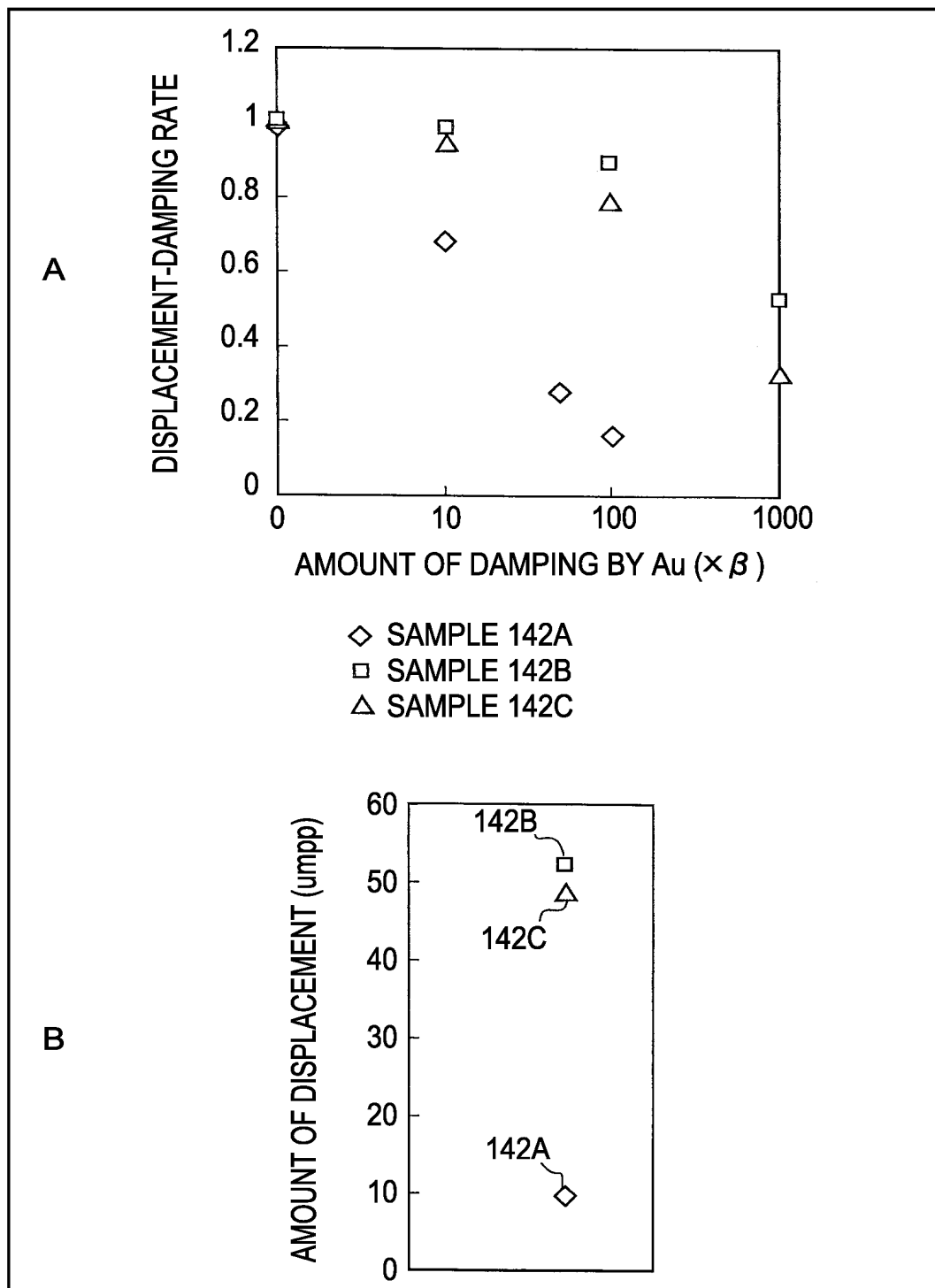


FIG. 47C



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FIG. 48



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FIG. 49A

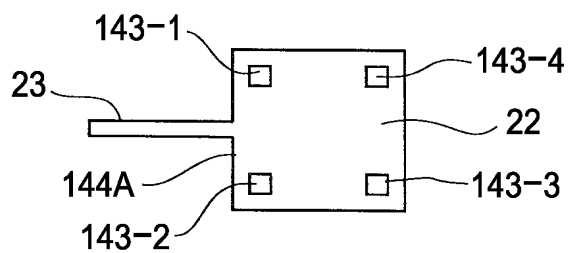


FIG. 49B

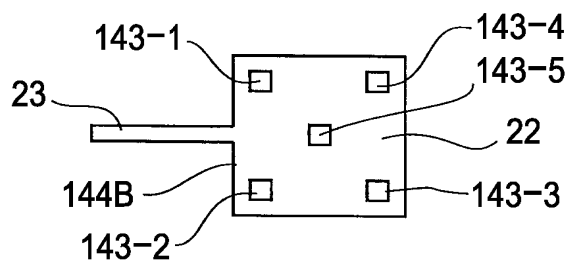


FIG. 49C

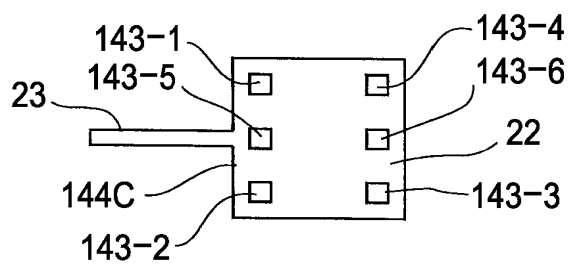


FIG. 49D

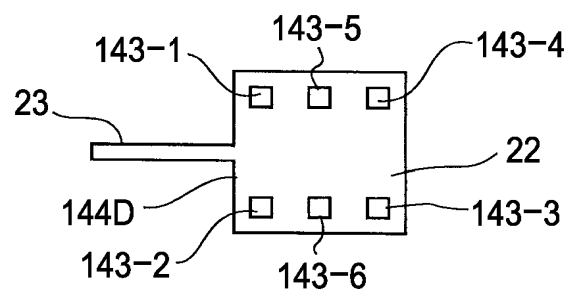


FIG. 50

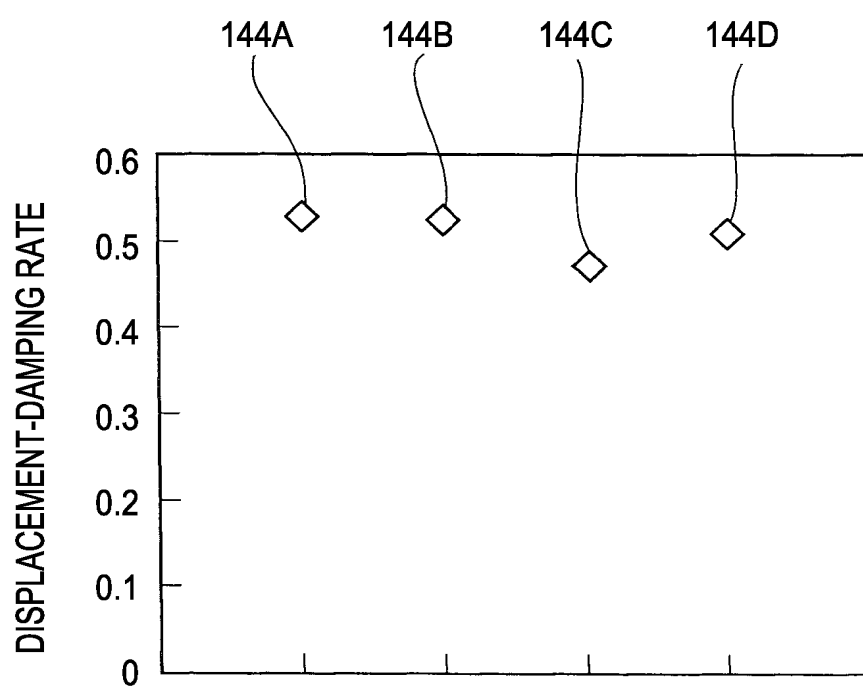


FIG. 51

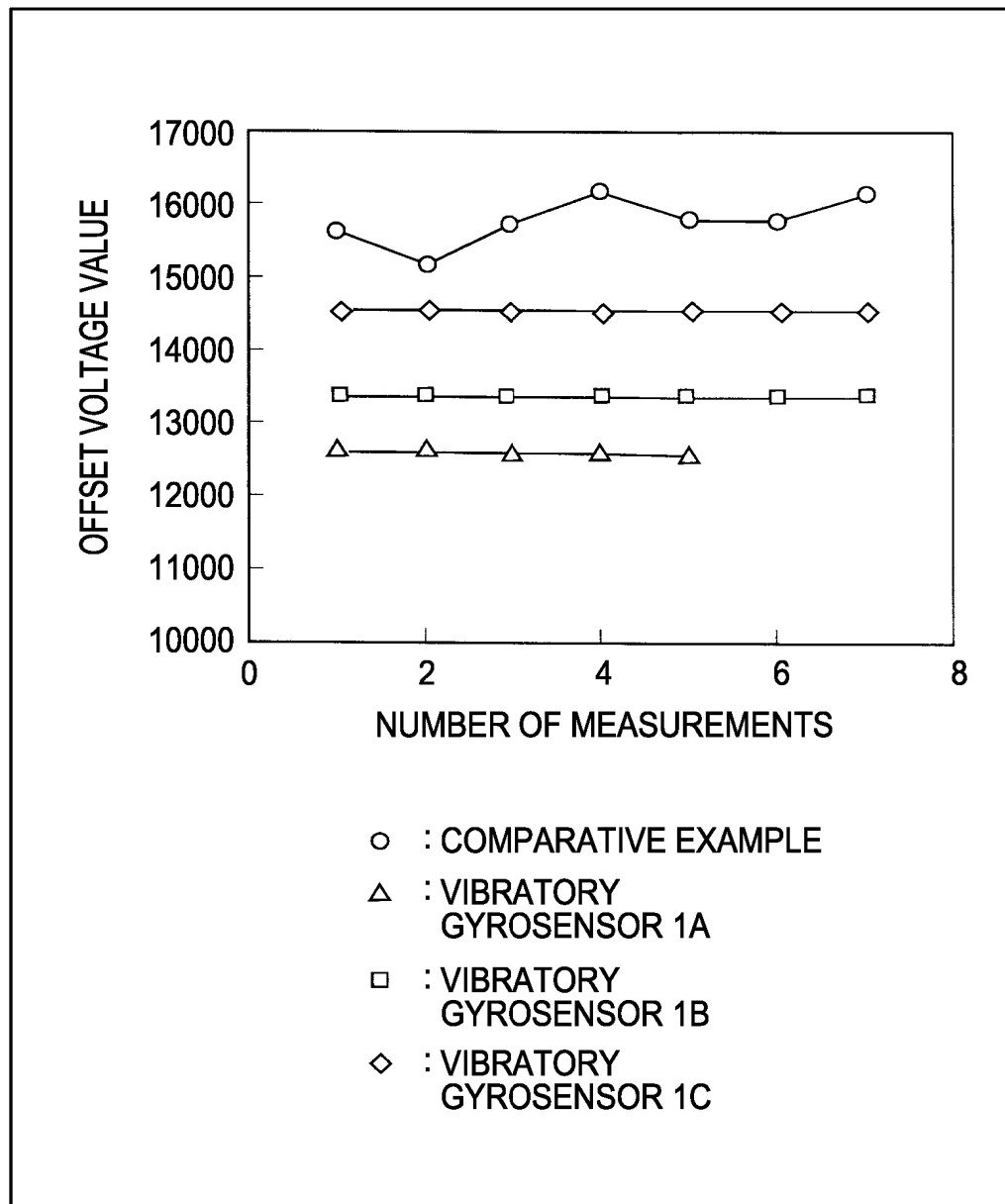


FIG. 52

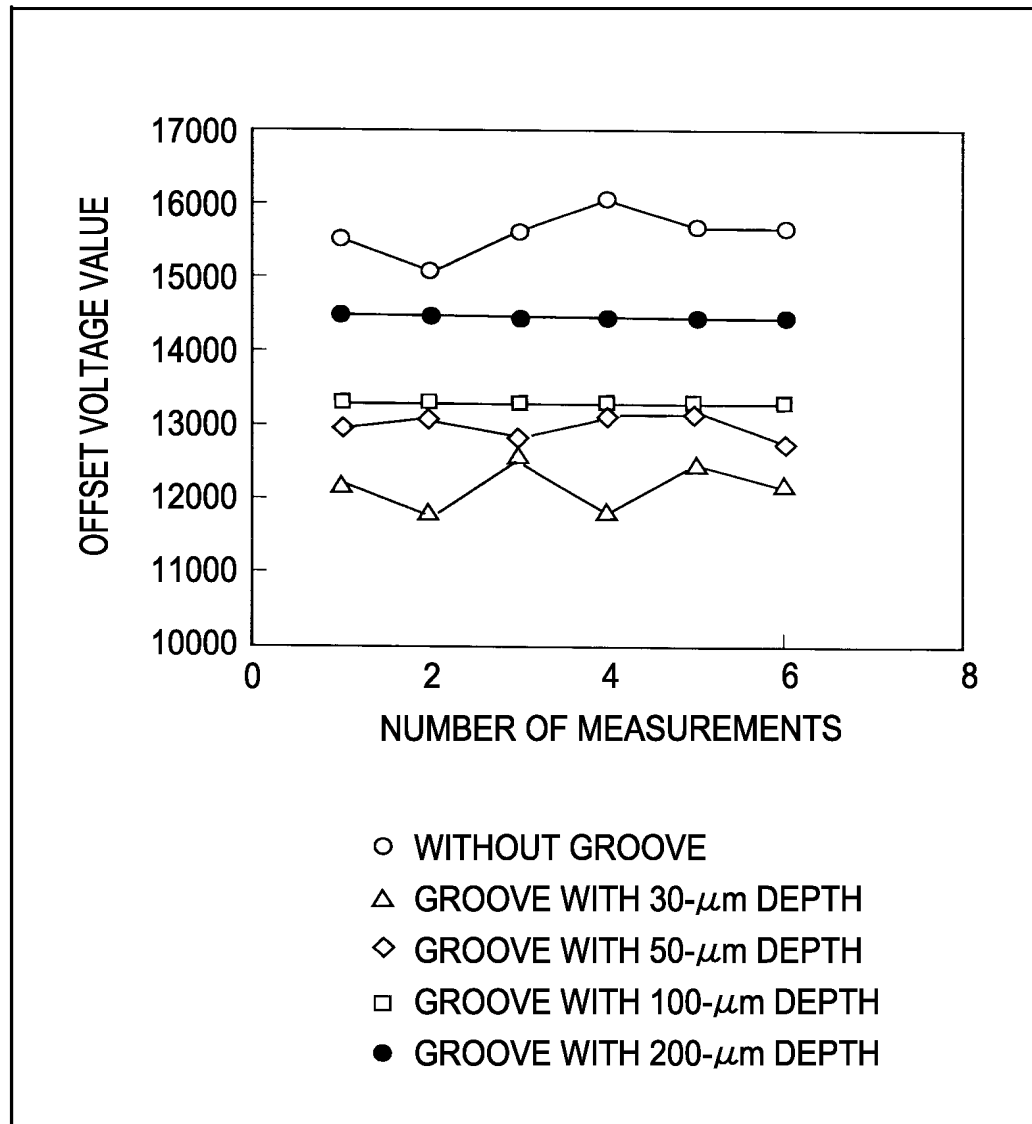




FIG. 53

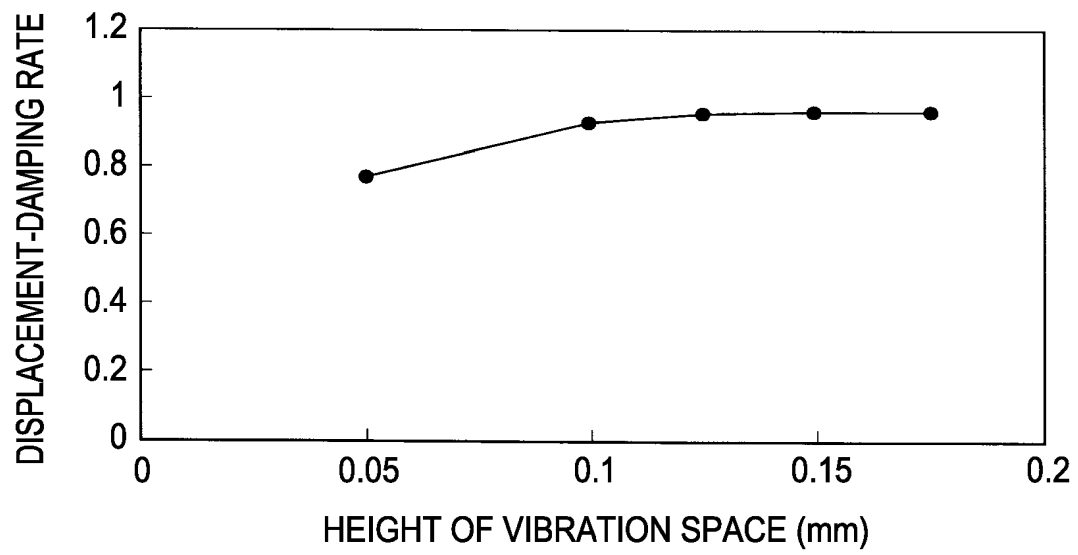
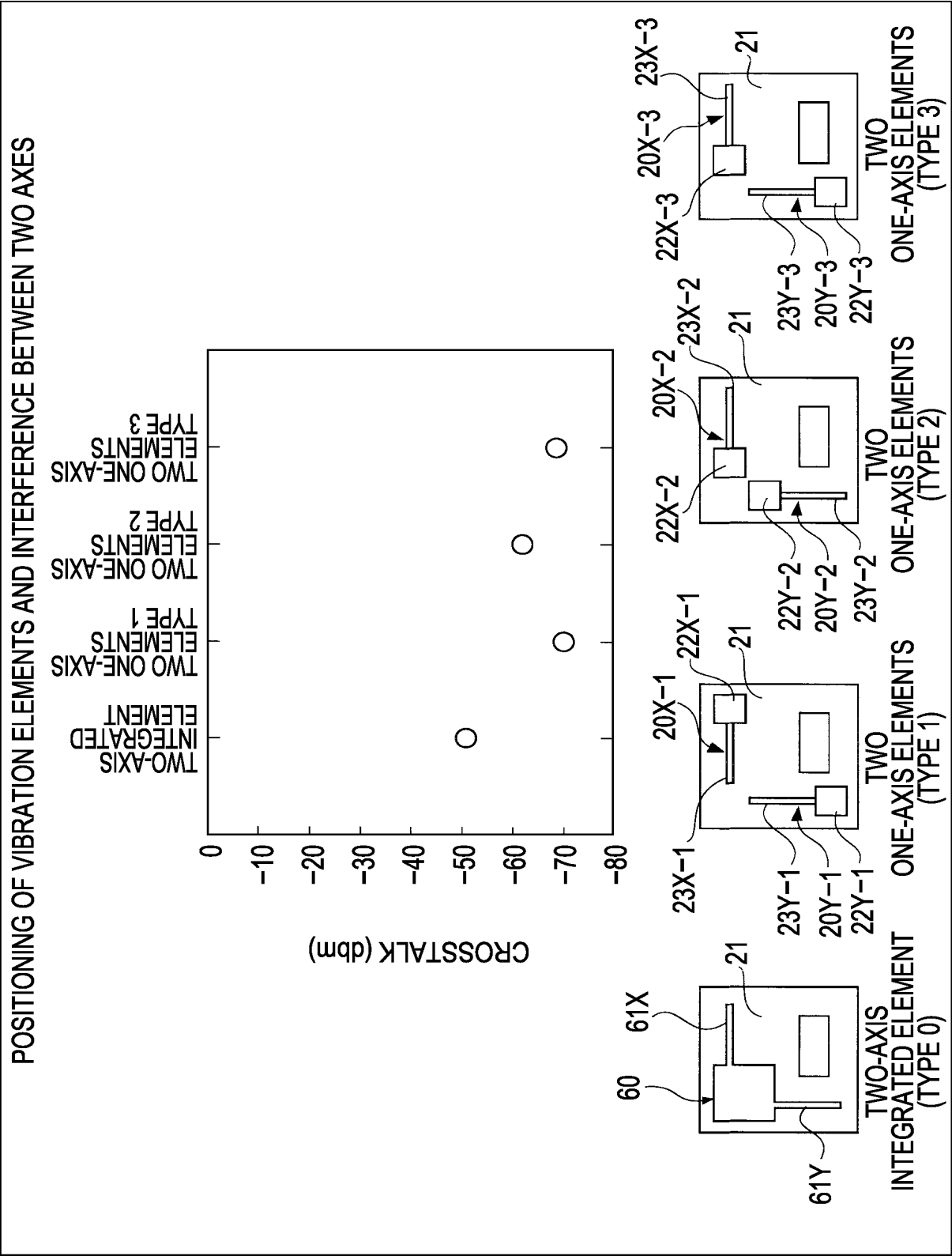


FIG. 54

	3cm-SQUARE SUBSTRATE	4in- $\phi$ SUBSTRATE	5in- $\phi$ SUBSTRATE
ONE-AXIS VIBRATION ELEMENTS	60 (30)	1200 (600)	4000 (2000)
TWO-AXIS INTEGRATED VIBRATION ELEMENTS	20	300	800

FIG. 55



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FIG. 56A

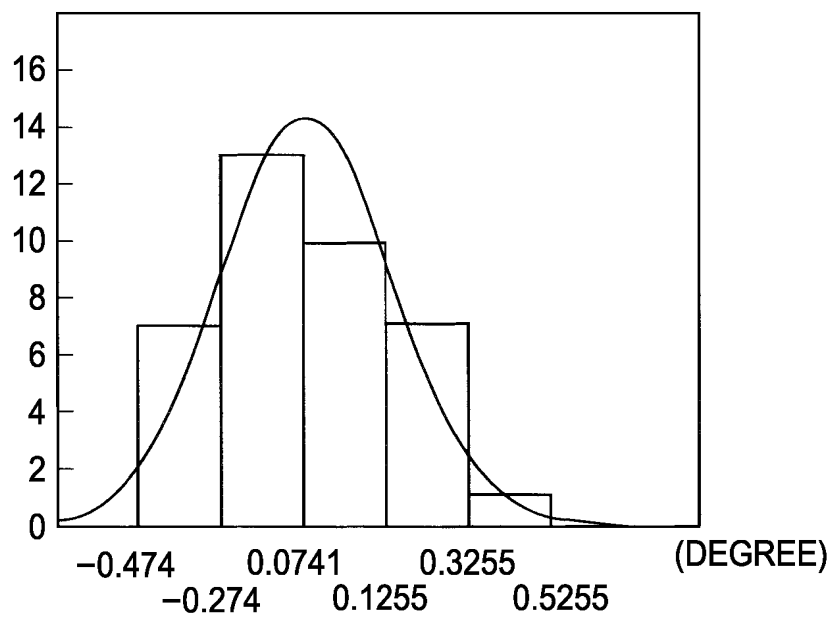


FIG. 56B

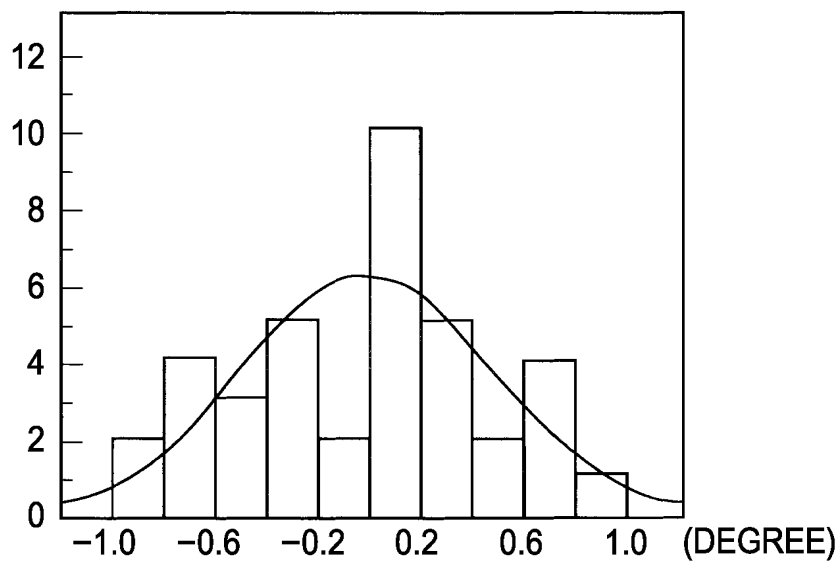
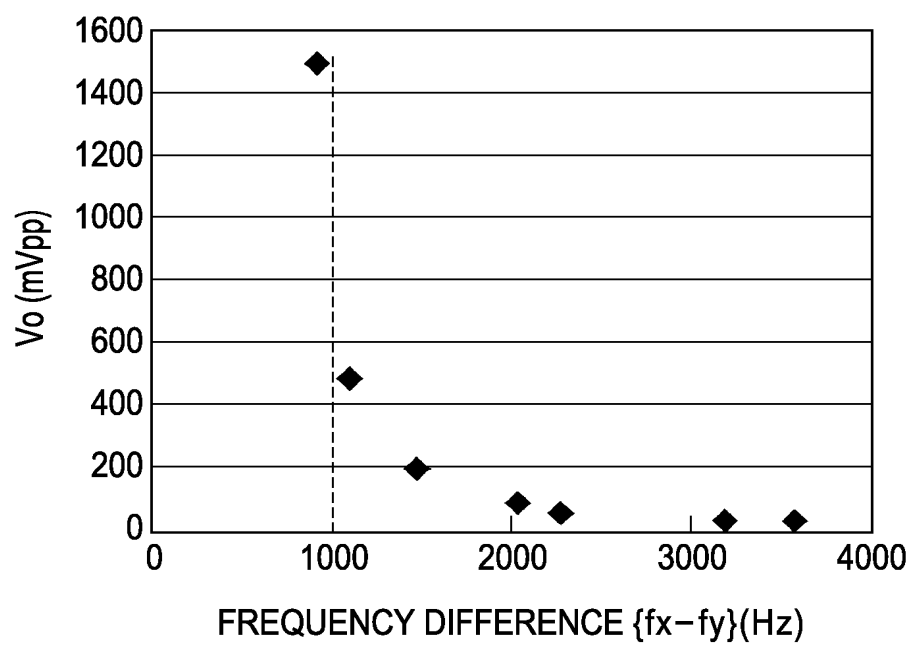


FIG. 57



**FIG. 58**

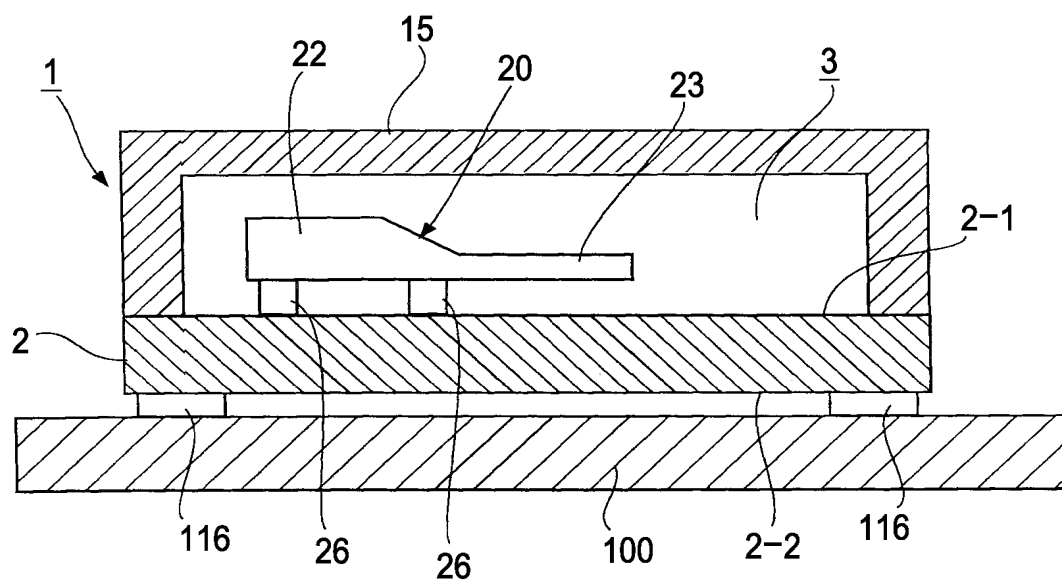


FIG. 59

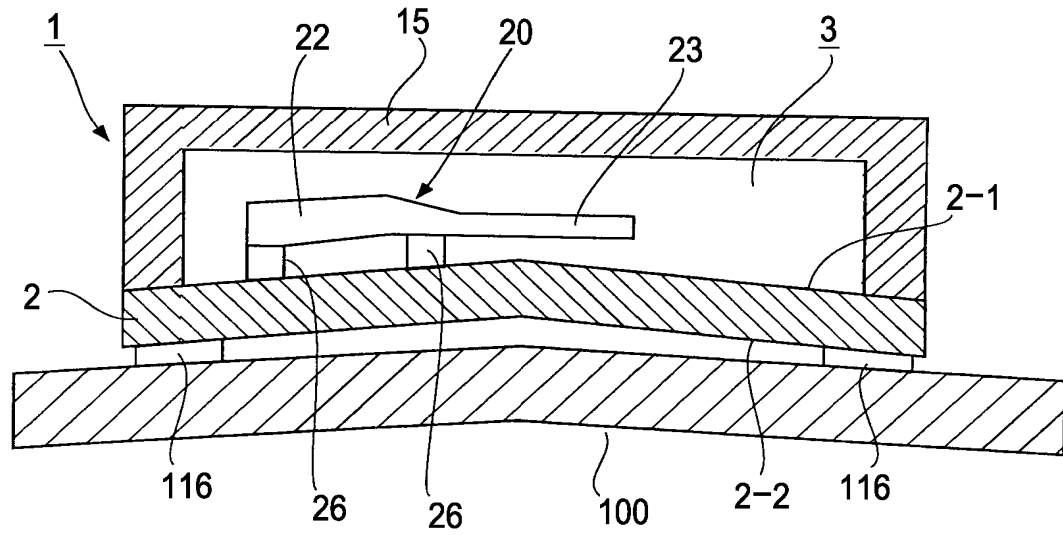


FIG. 60A

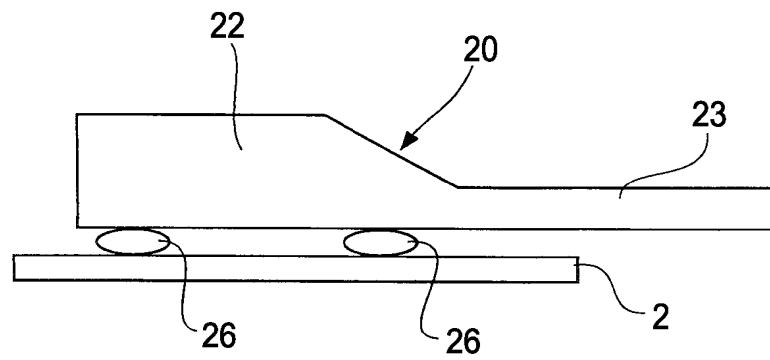


FIG. 60B

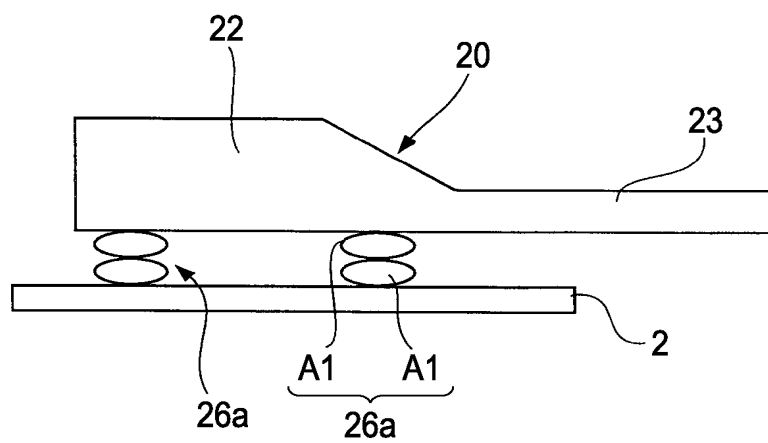


FIG. 61A

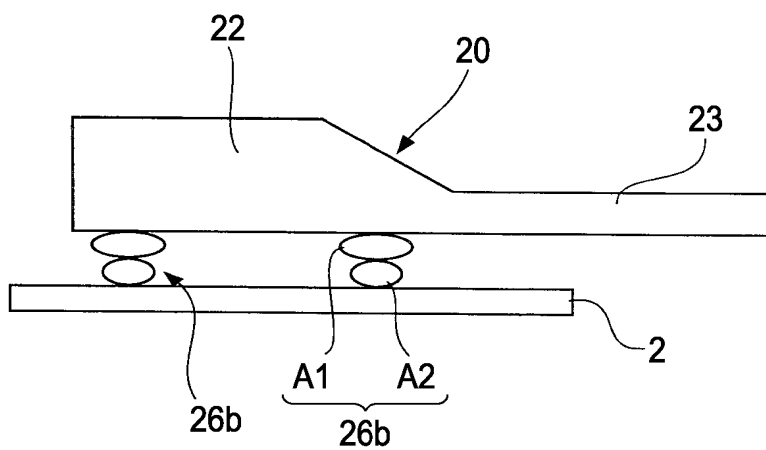


FIG. 61B

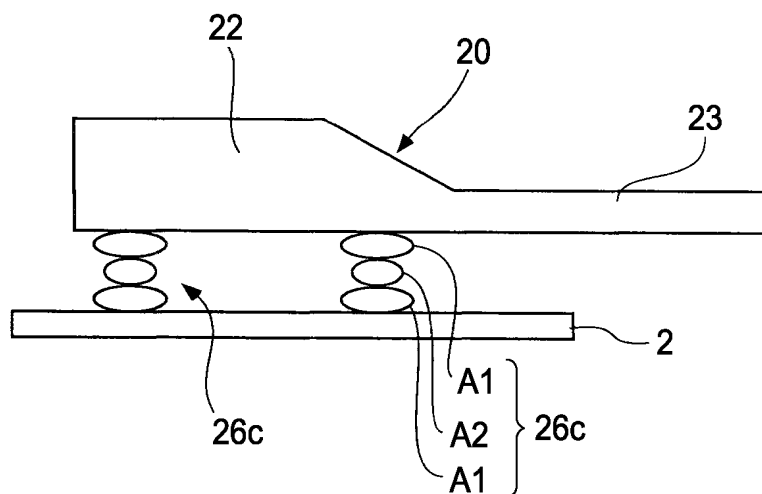


FIG. 62A

	LARGE (A1)	SMALL (A2)
WIDTH OF GOLD WIRE ( $\mu\text{m}$ )	38	25
BALL DIAMETER ( $\mu\text{m}$ )	130	90



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FIG. 62B

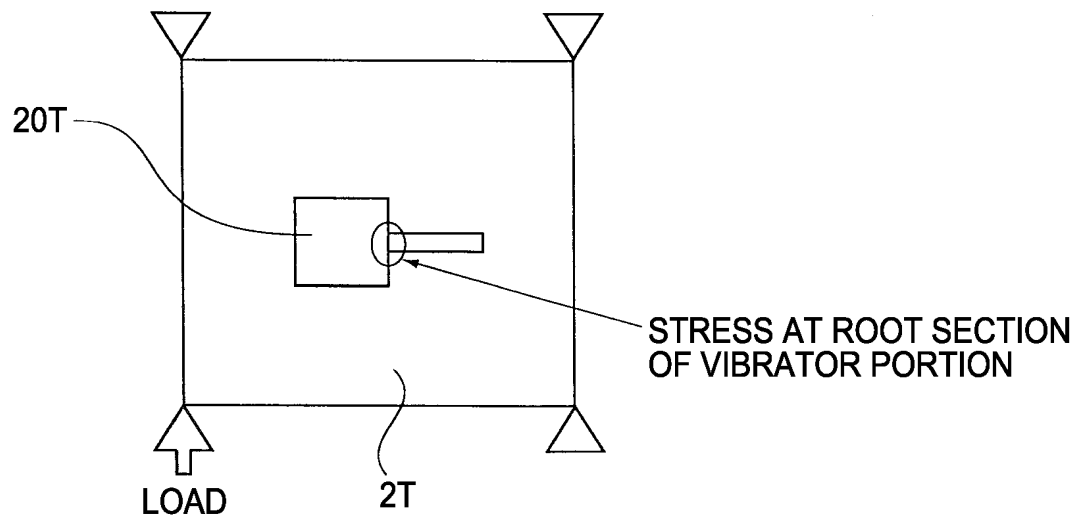
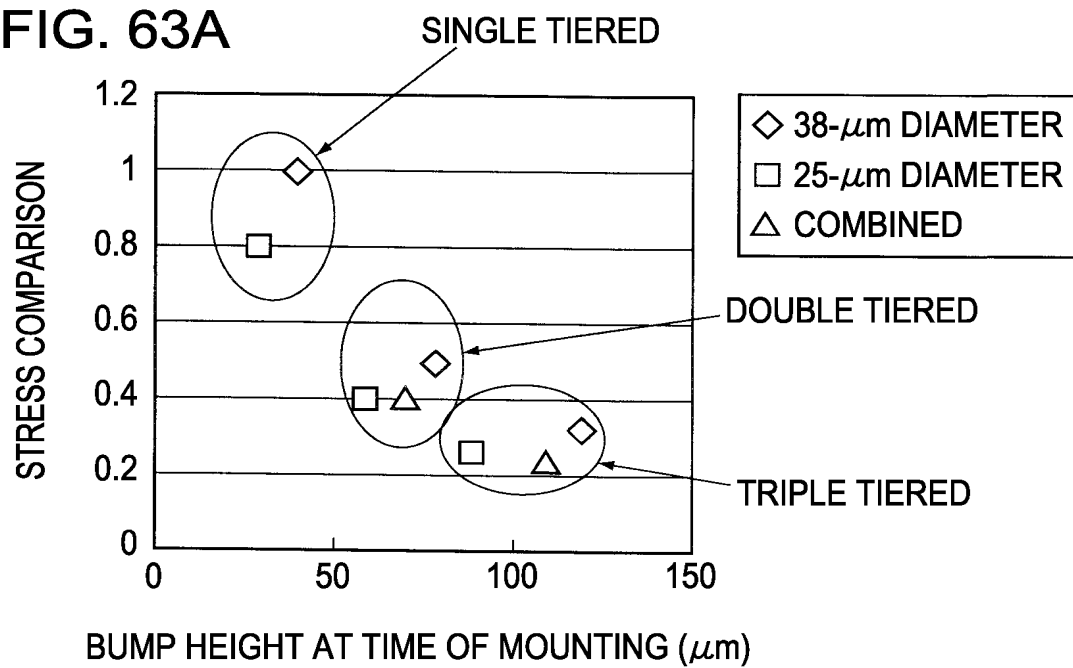


FIG. 63A



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FIG. 63B

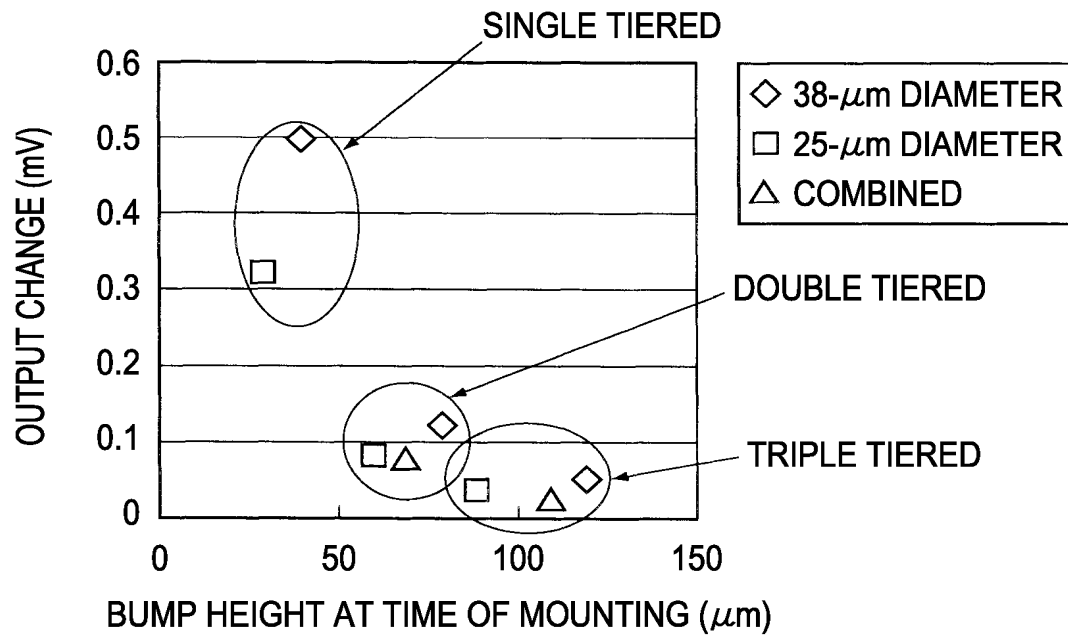


FIG. 64A

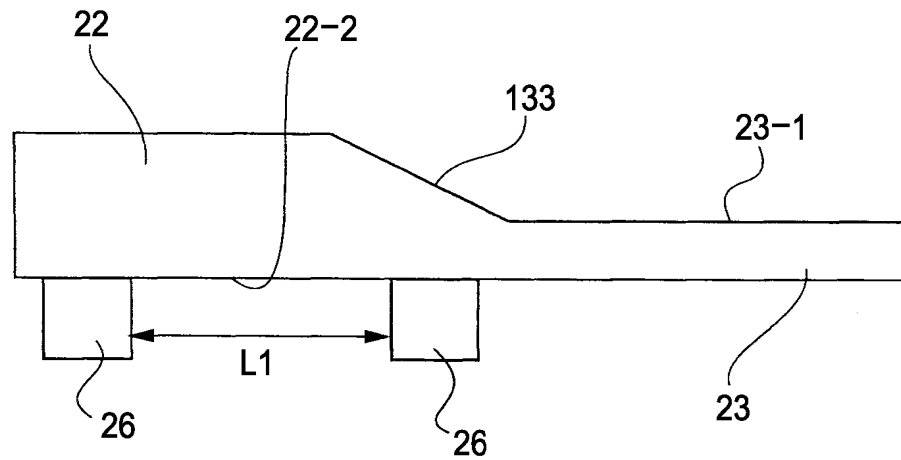


FIG. 64B

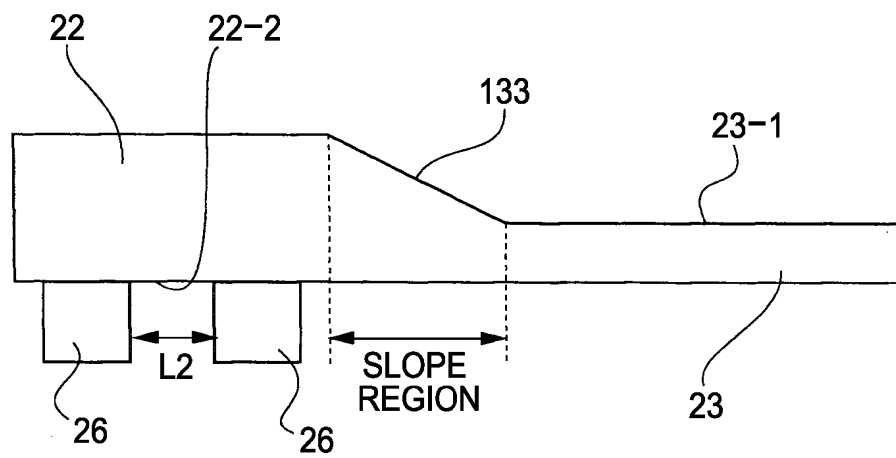


FIG. 65

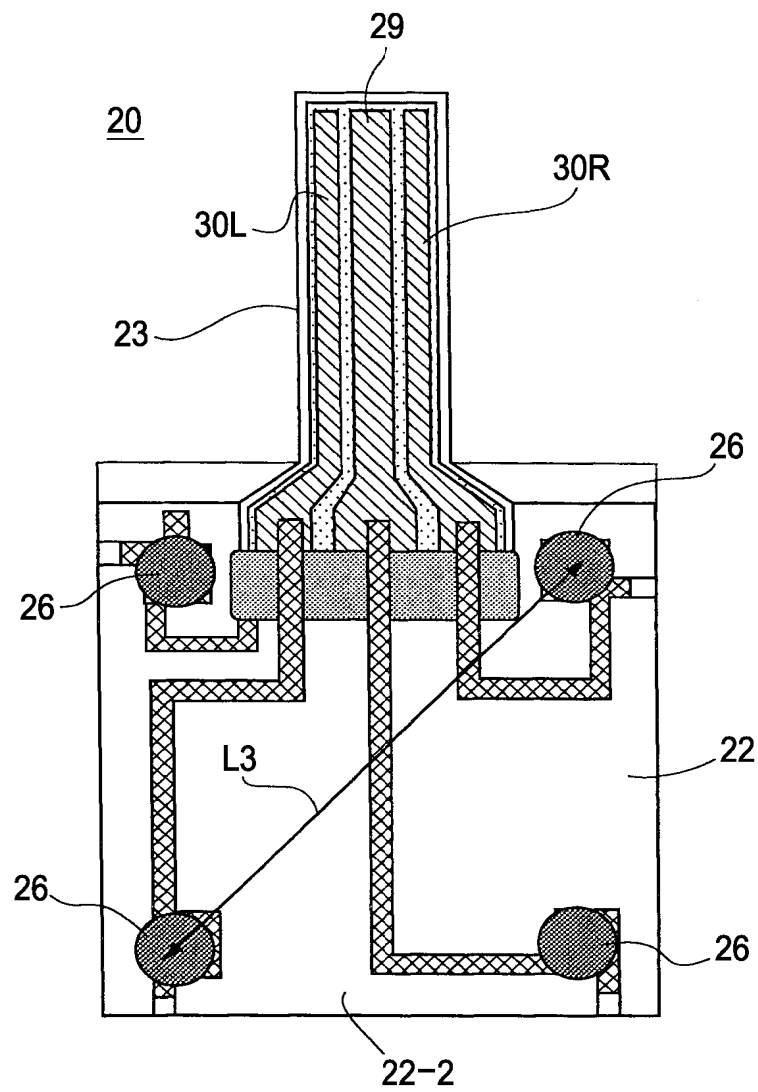


FIG. 66

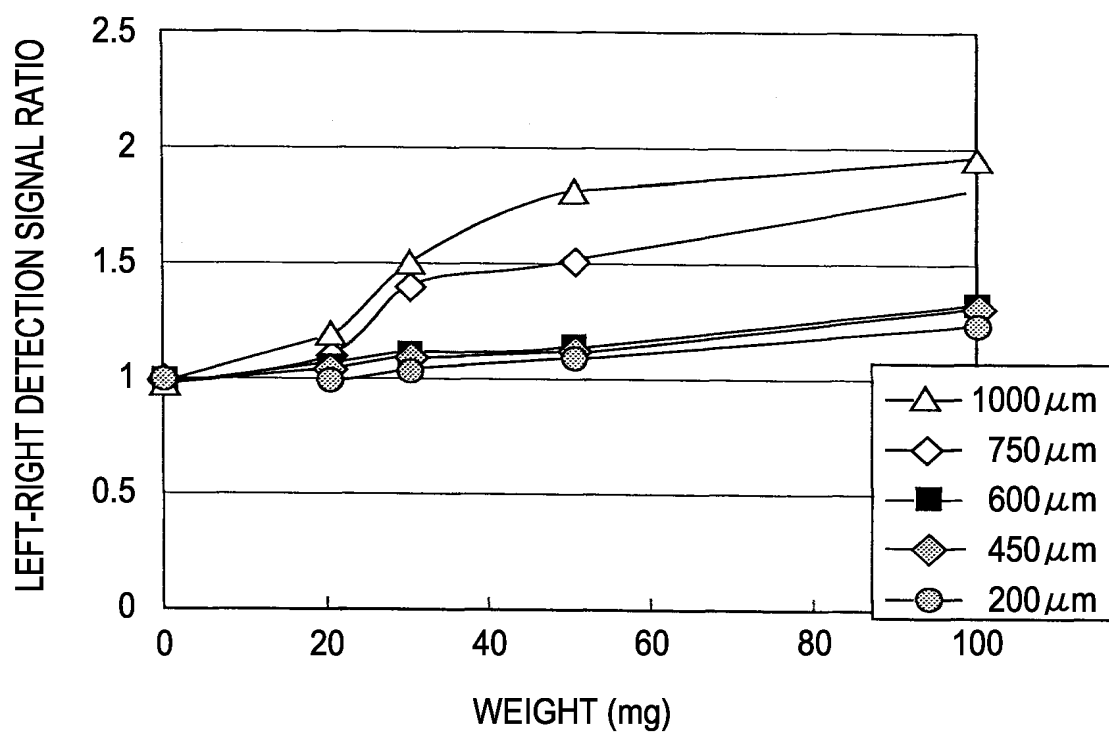


FIG. 67

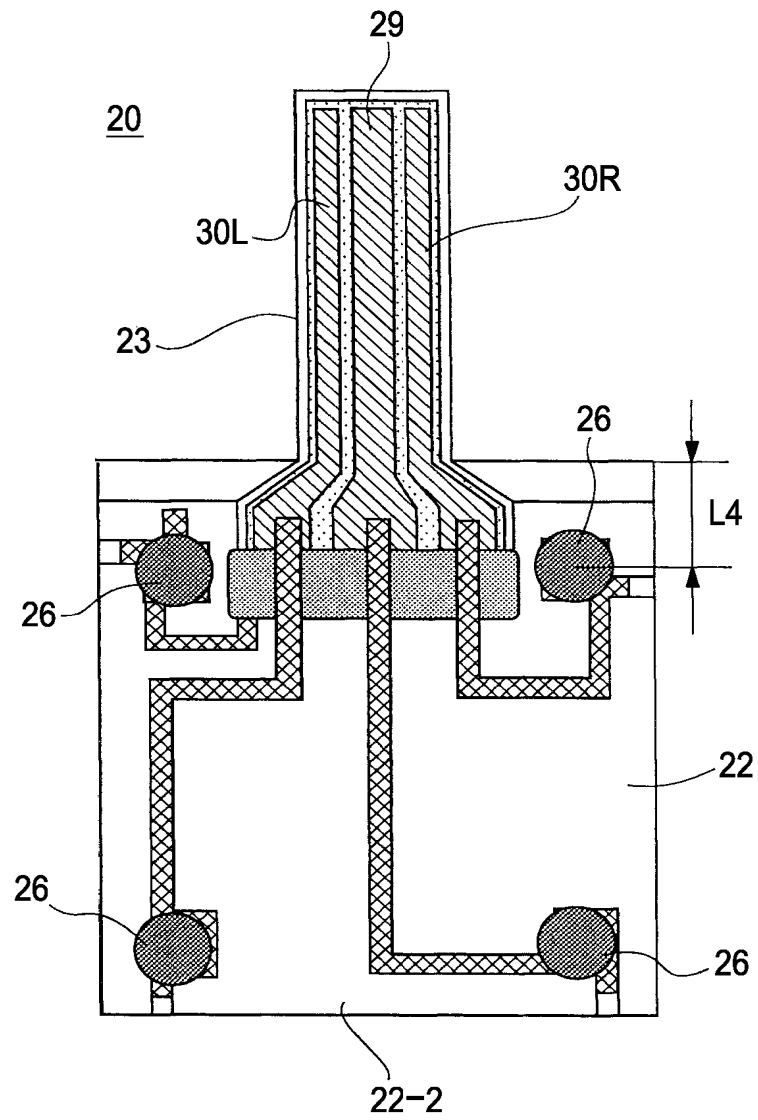


FIG. 68

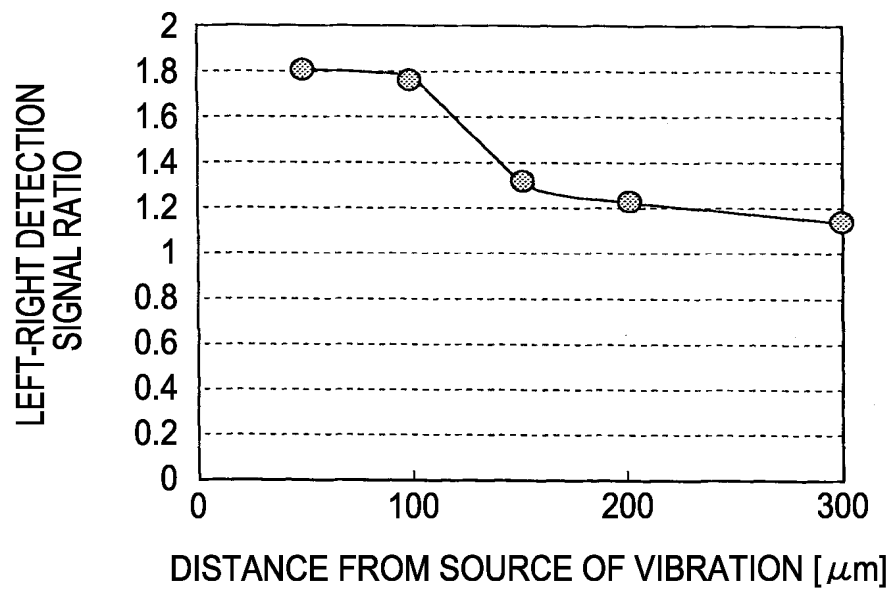


FIG. 69

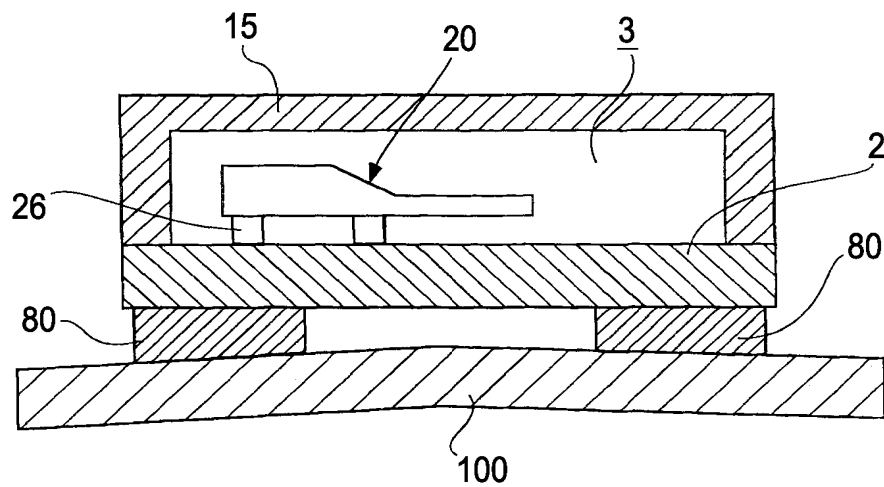


FIG. 70

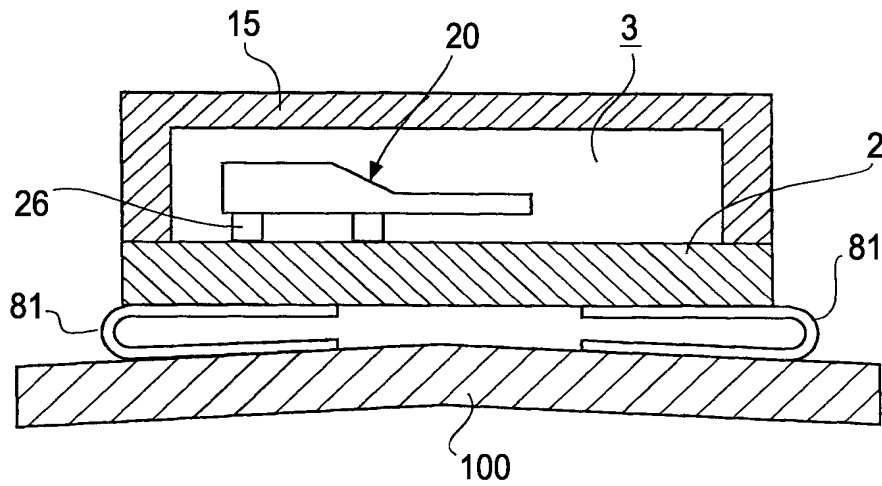


FIG. 71

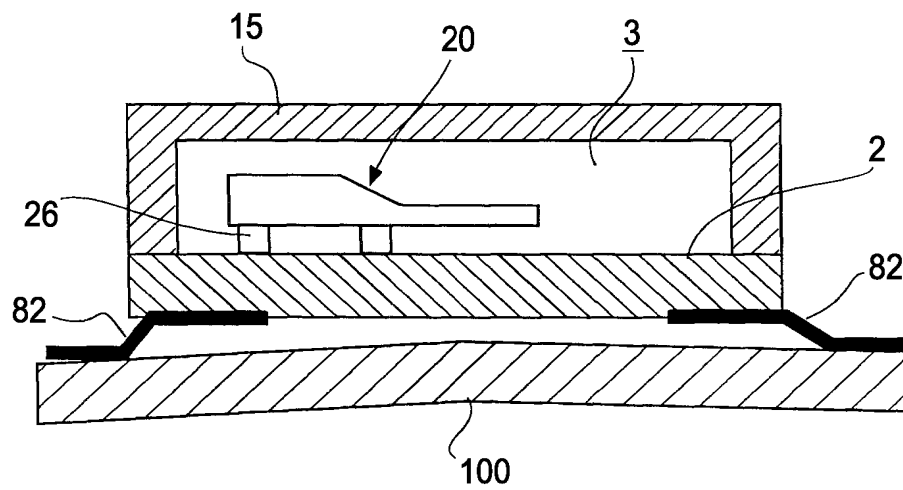




FIG. 72

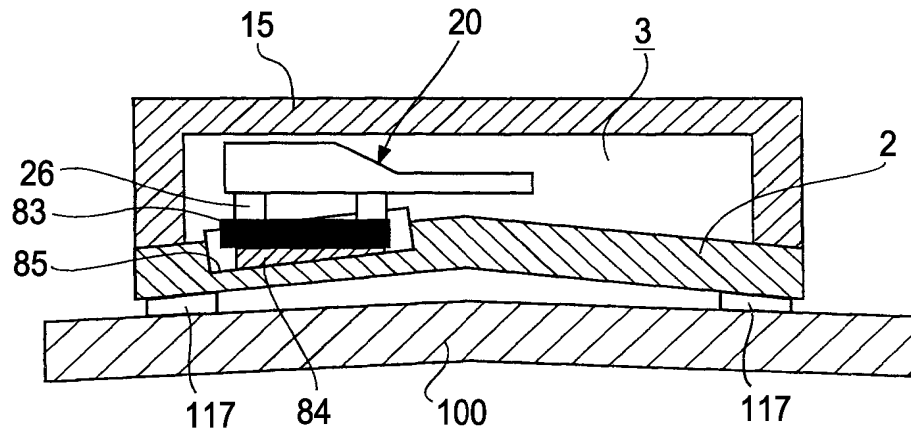


FIG. 73

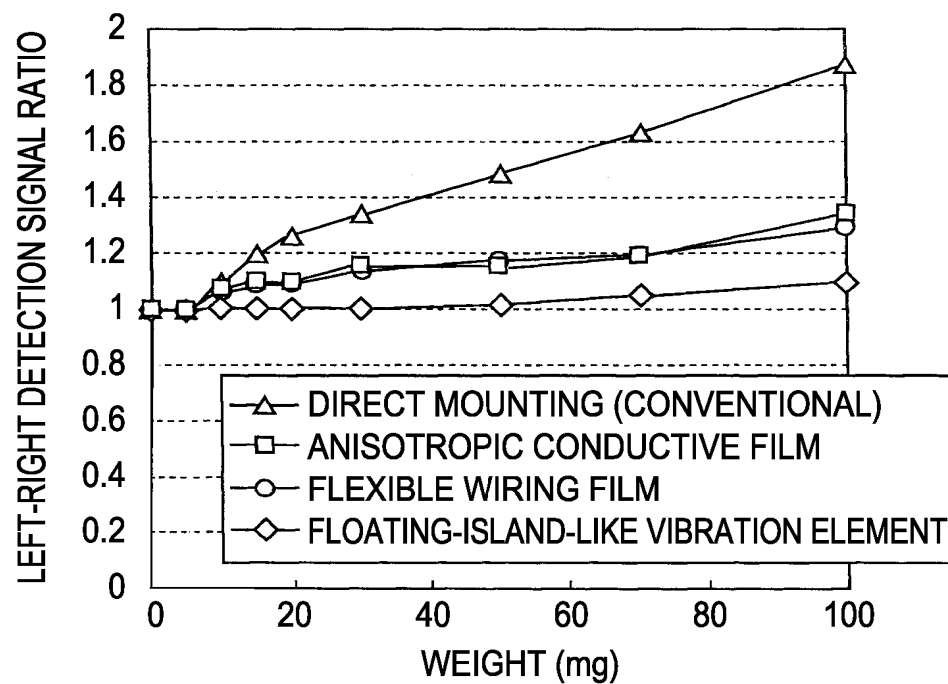


FIG. 74

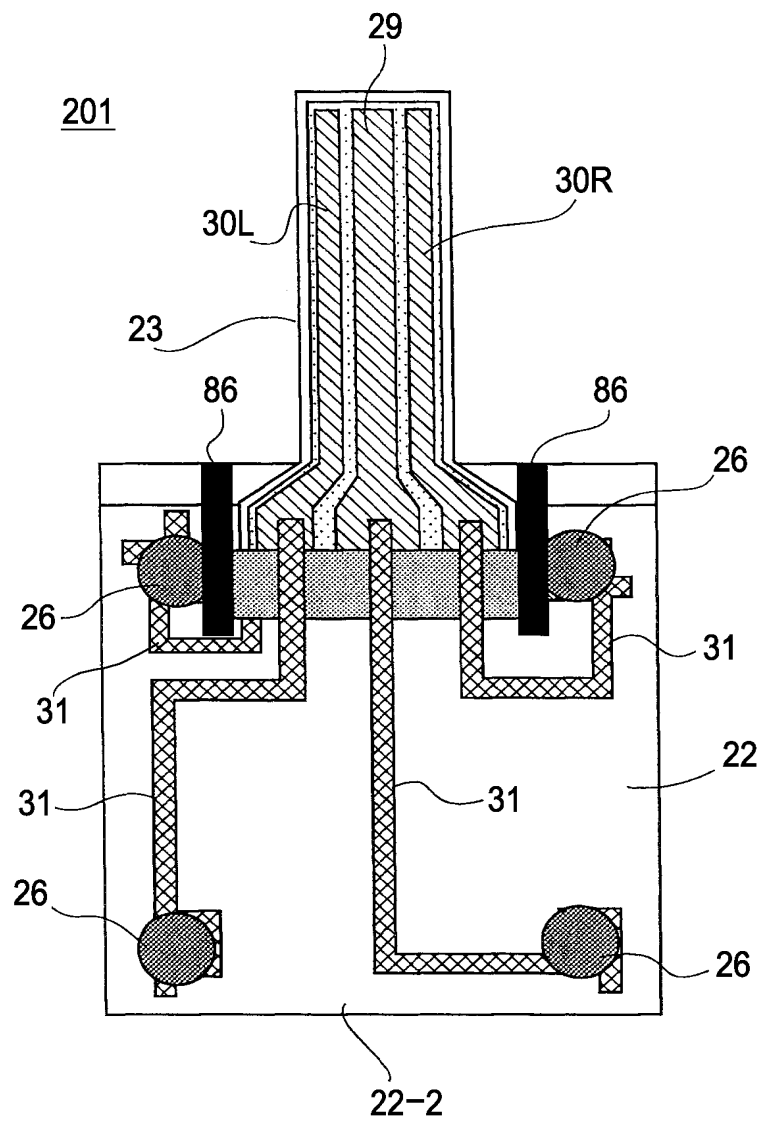


FIG. 75

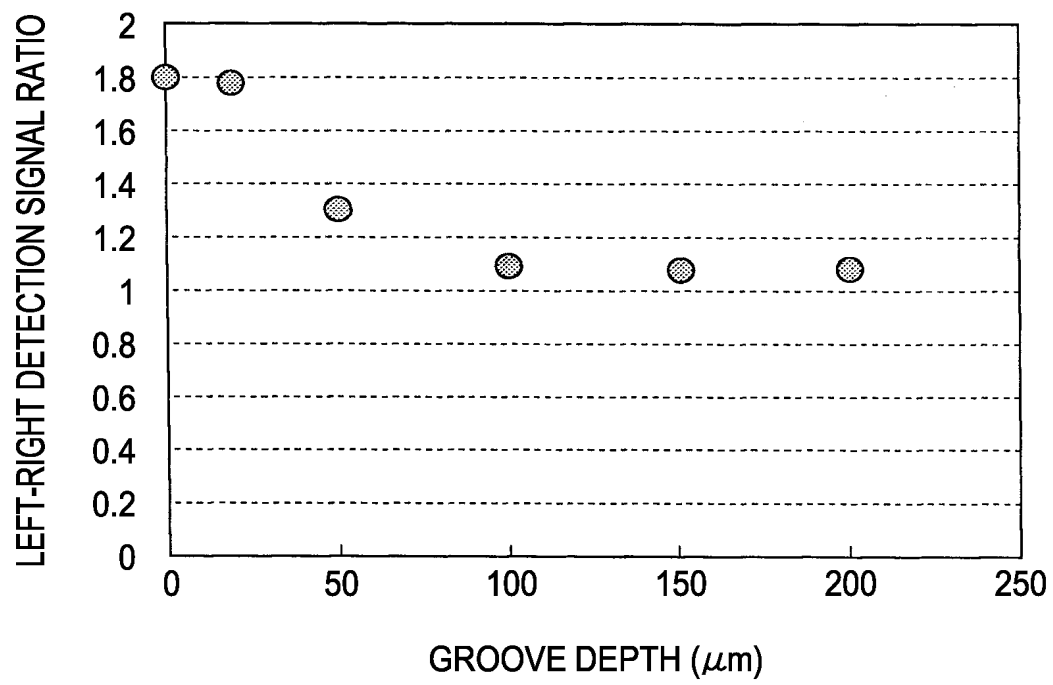


FIG. 76

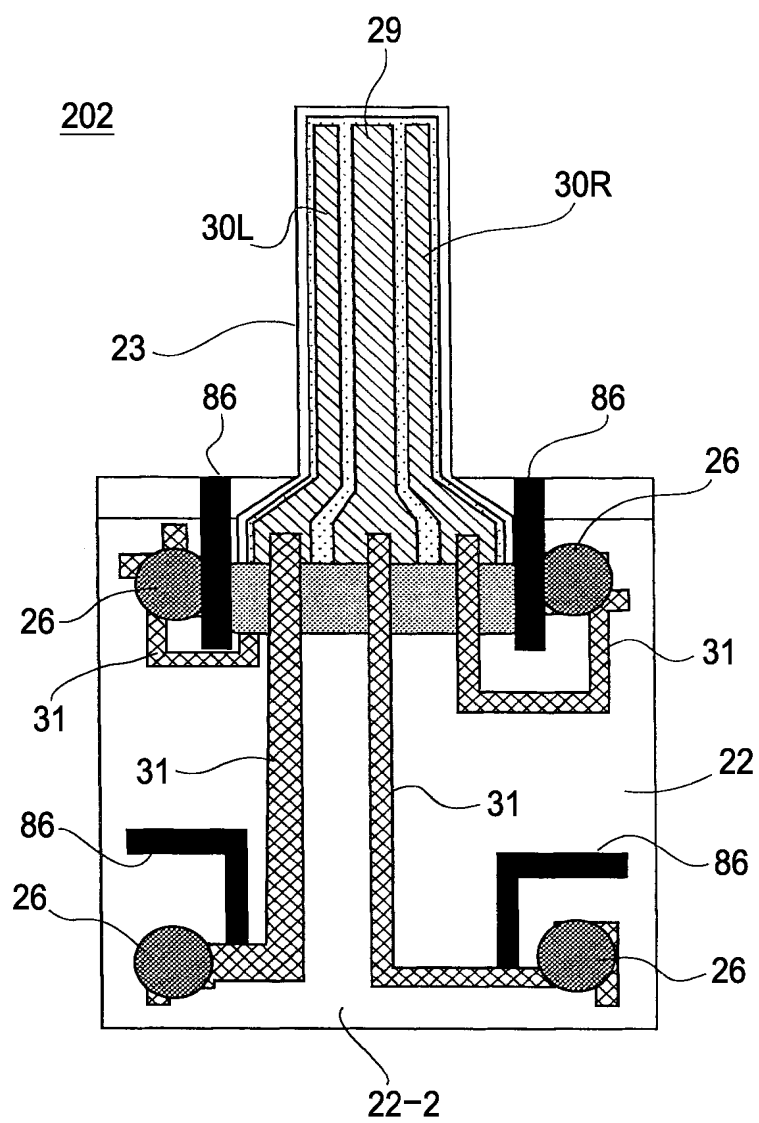


FIG. 77

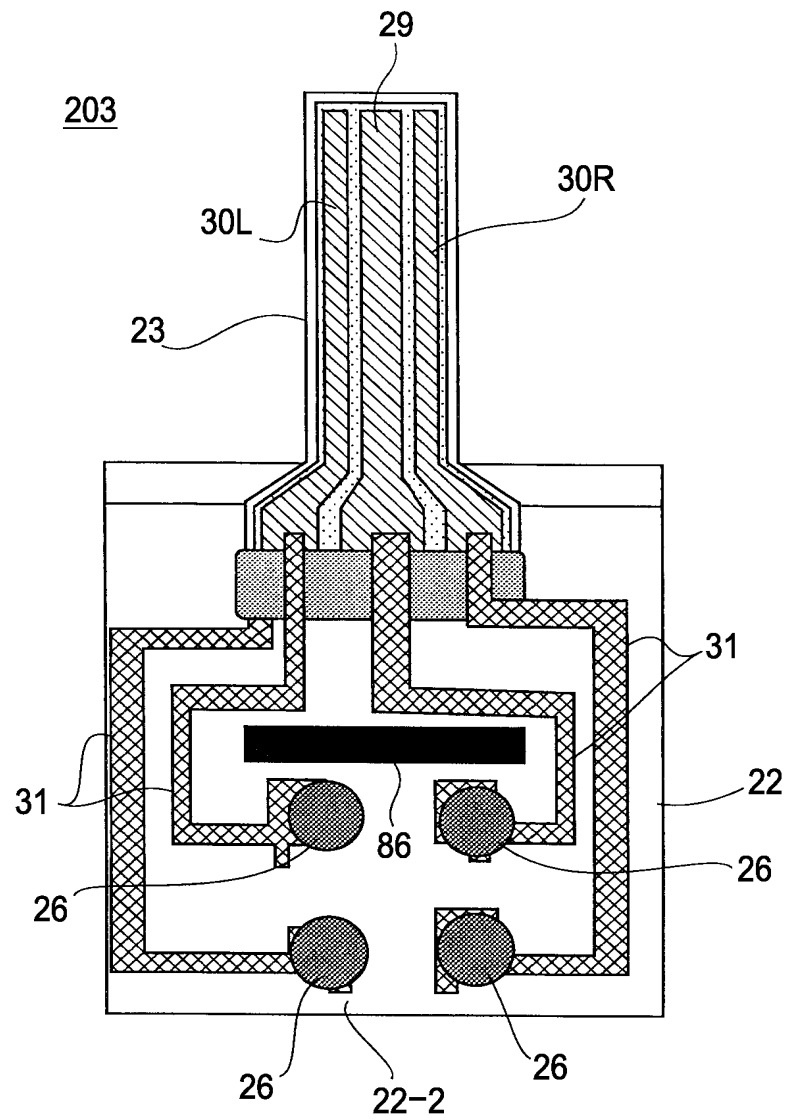


FIG. 78A

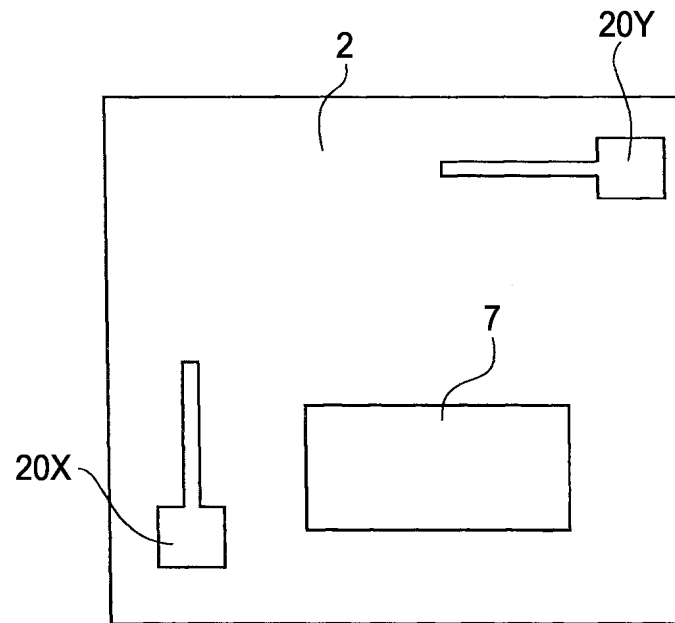


FIG. 78B

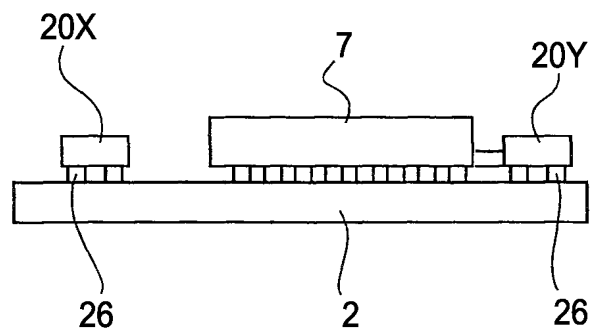


FIG. 79A

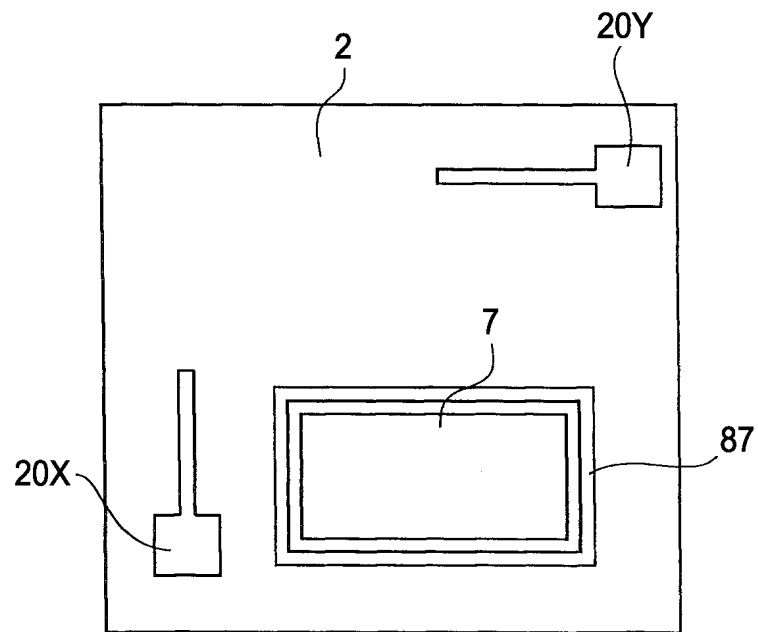
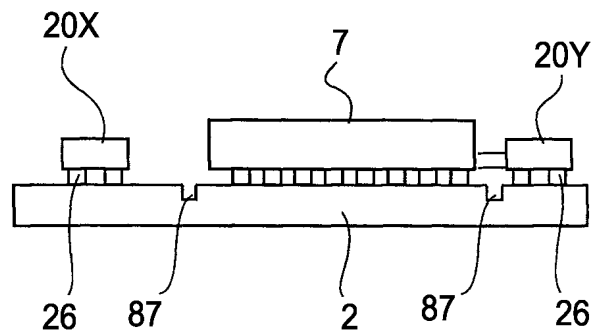


FIG. 79B



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FIG. 80

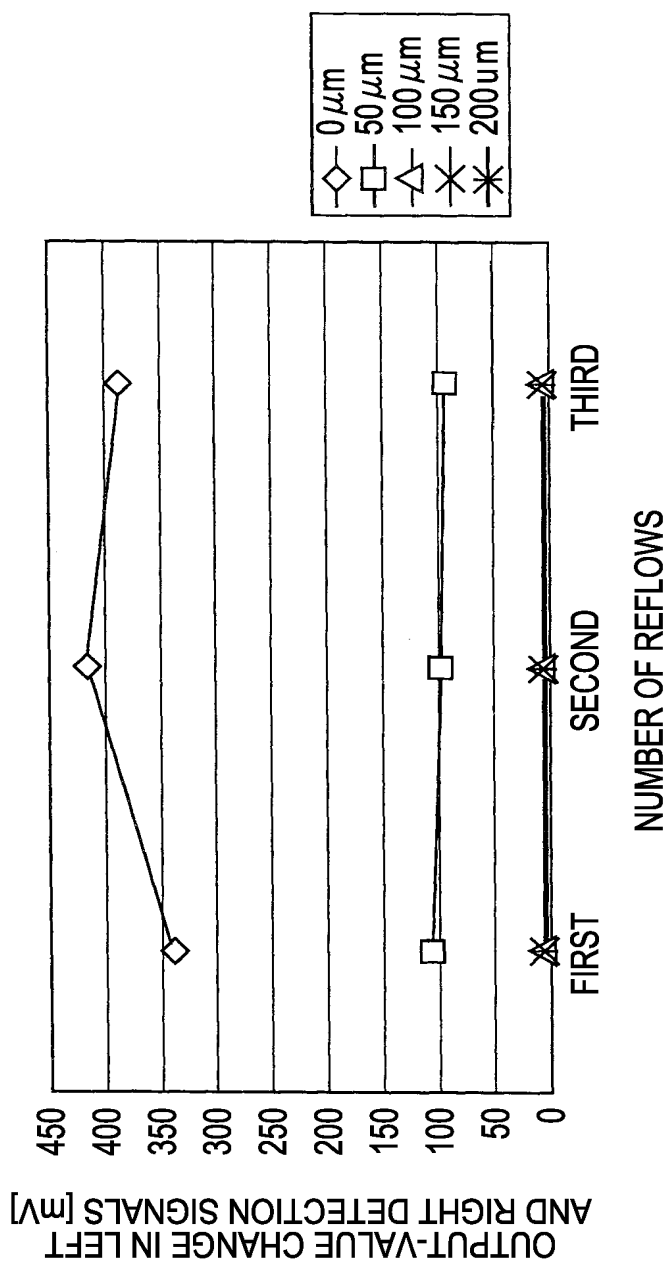




FIG. 81

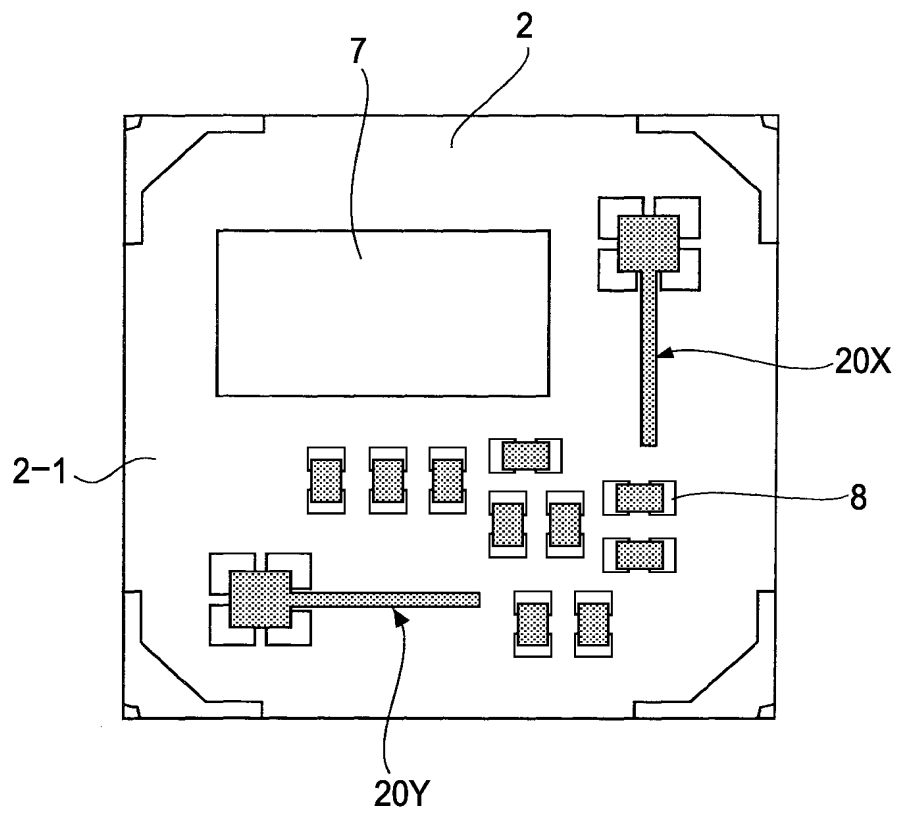


FIG. 82

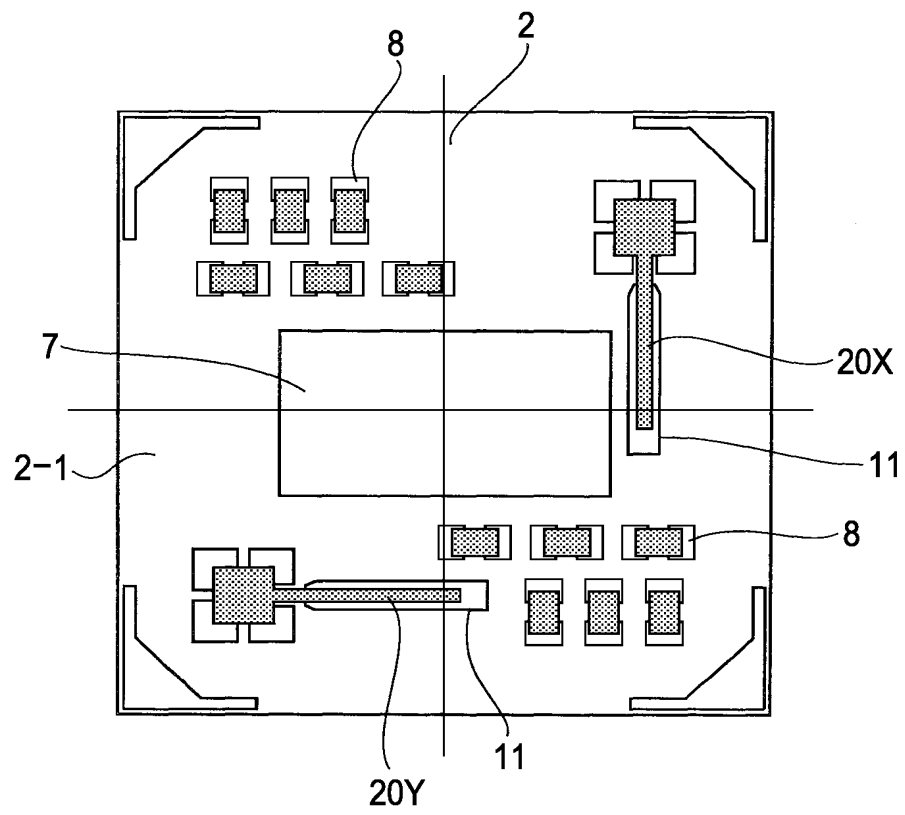


FIG. 83

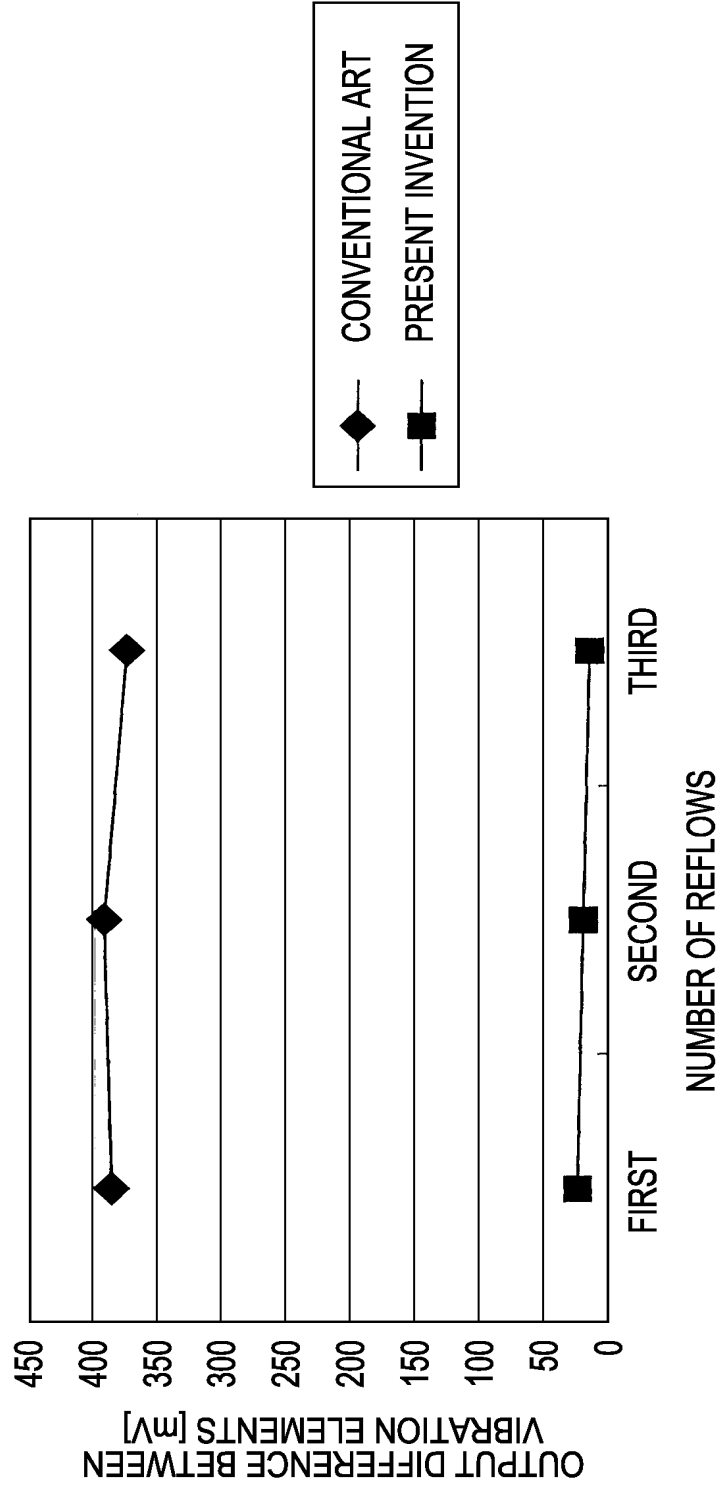


FIG. 84A

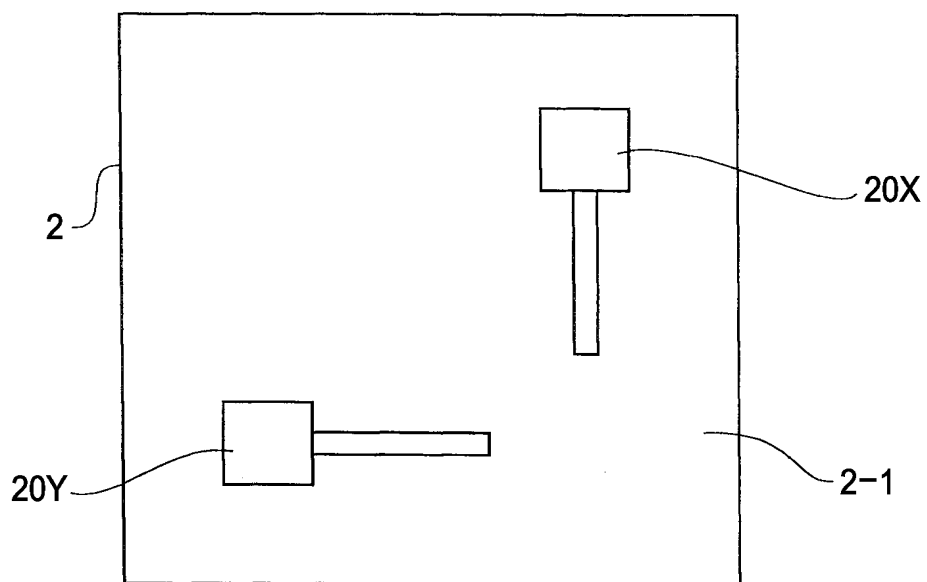


FIG. 84B

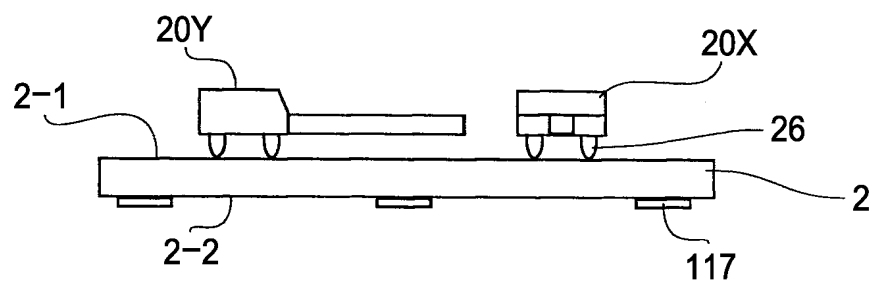


FIG. 84C

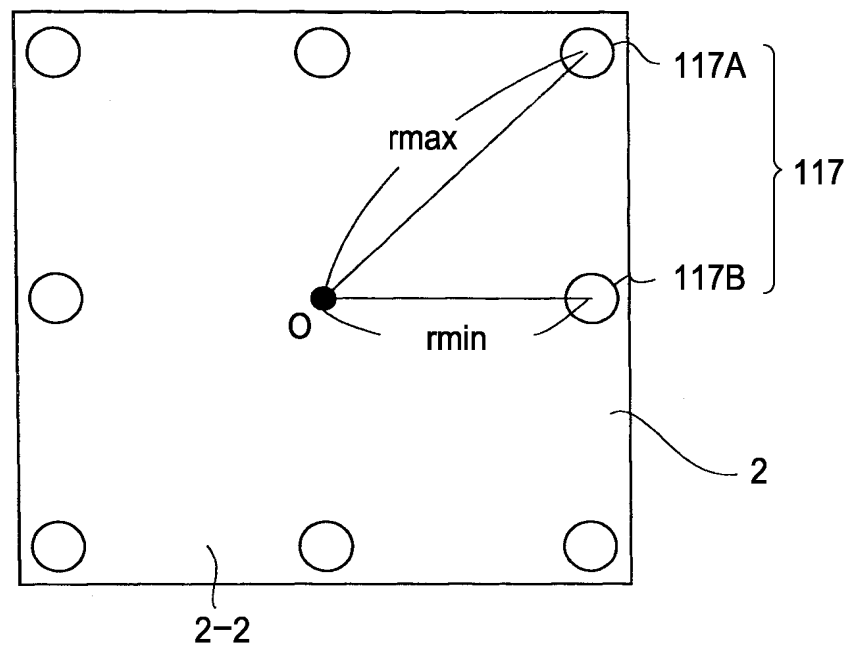


FIG. 85

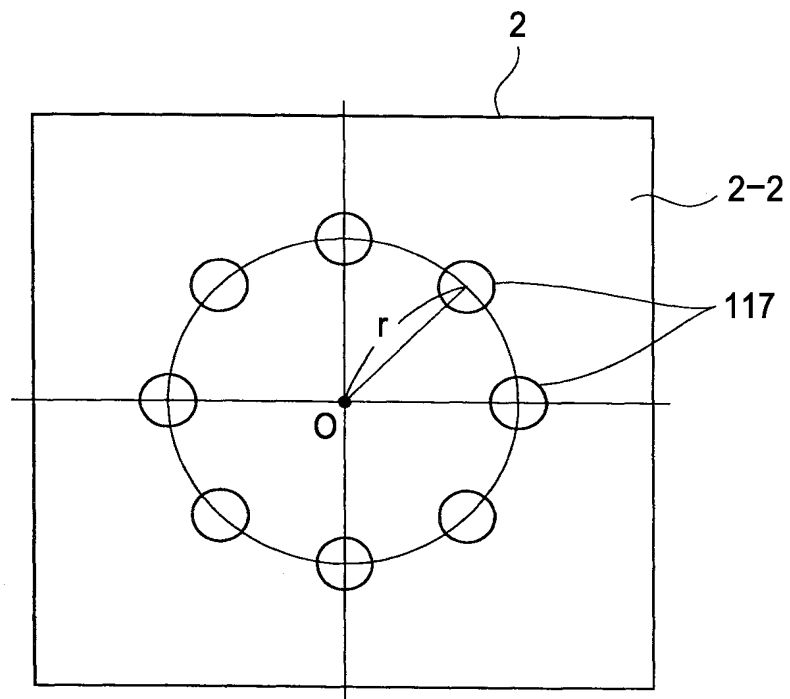


FIG. 86A

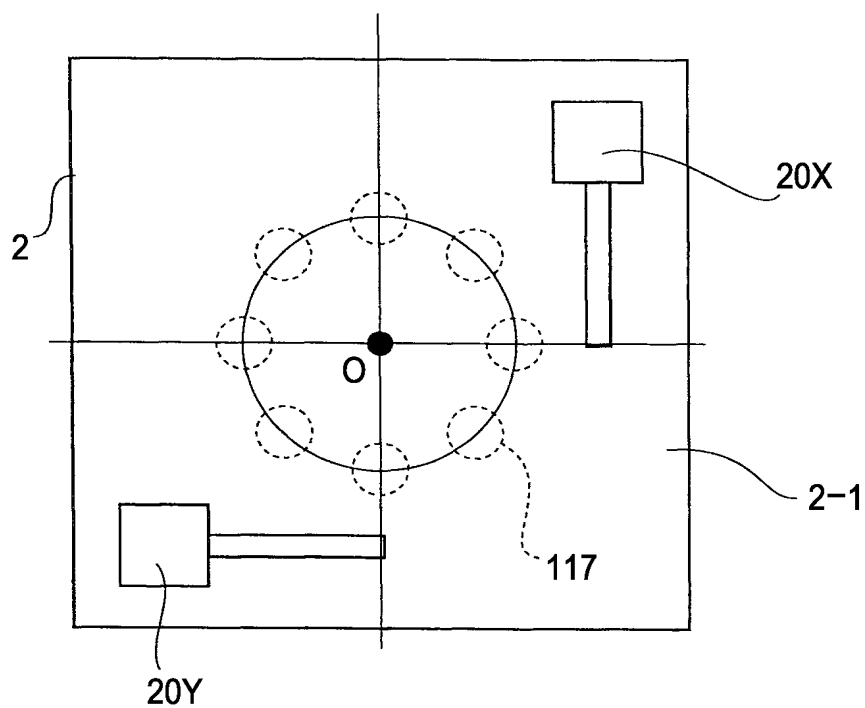


FIG. 86B

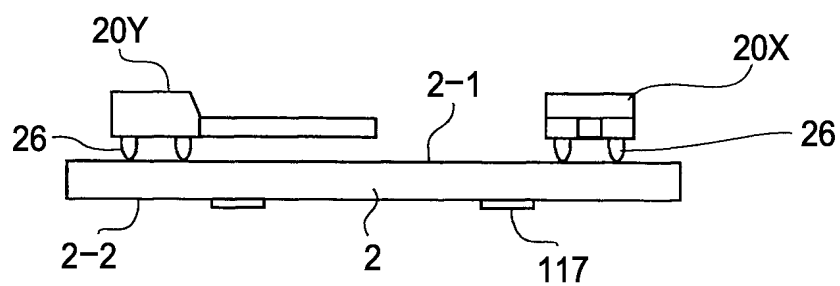


FIG. 87

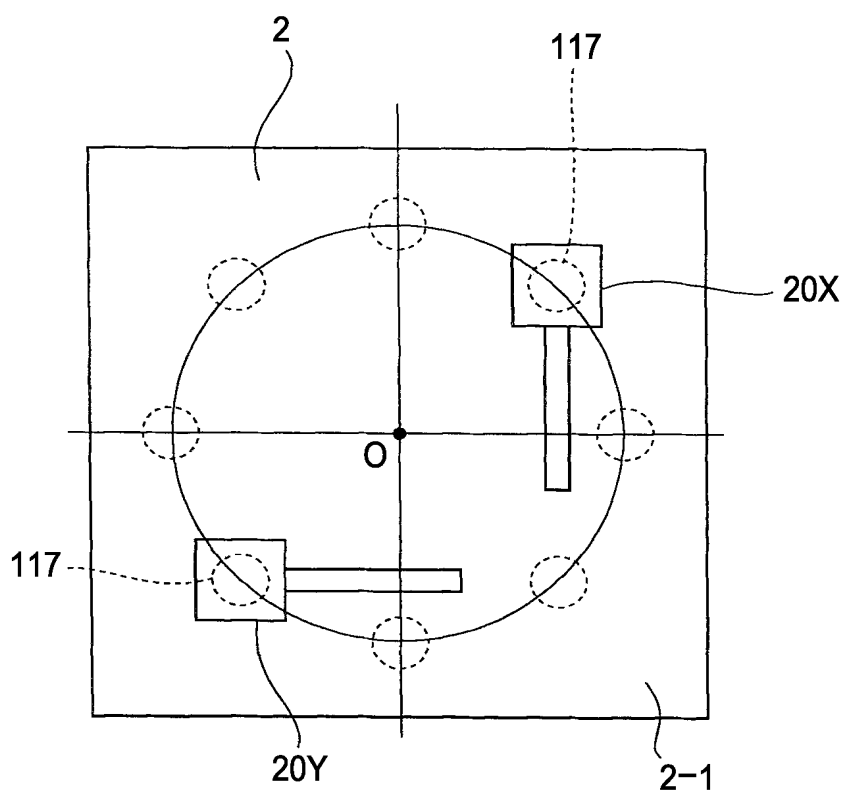




FIG. 88

